SONY

4-194-692-**21**(1)

DSC-WX5

GB

ES

GB Digital Still Camera/Instruction Manual

ES Cámara fotografía digital/Manual de instrucciones

MEMORY STICK ™

LITHIUM ION N TYPE

SDHC CLASS 4

SDXC CLASS 4

AVCHD

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Cyber-shot

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English

Owner's Record

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call your Sony dealer regarding this product.

Model No. DSC-WX5

Serial No. _____

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

IMPORTANT SAFETY INSTRUCTIONS

-SAVE THESE INSTRUCTIONS

DANGER

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.

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- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

Battery charger

Even if the CHARGE lamp is not lit, the battery charger is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet (wall socket). If some trouble occurs while using the battery charger, immediately shut off the power by disconnecting the plug from the wall outlet (wall socket).

The power cord (mains lead), if supplied, is designed specifically for use with this camera only, and should not be used with other electrical equipment.

For Customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.
You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free
1-800-822-8837, or visit http://www.rbrc.org/

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Battery pack

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

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For Customers in the U.S.A.

UL is an internationally recognized safety organization.
The UL Mark on the product means it has been UL Listed.

If you have any questions about this product, you may call:
Sony Customer Information Center
1-800-222-SONY (7669)
The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY
Model No.: DSC-WX5
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo,
San Diego, CA 92127 U.S.A.
Telephone No.: 858-942-2230

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

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The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Europe

Notice for the customers in the countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

This product has been tested and found compliant with the limits set out in the EMC Directive for using connection cables shorter than 3 meters (9.8 feet).

GB

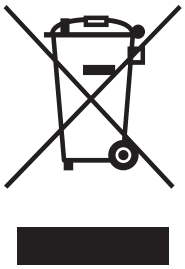
Attention

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.
On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.
By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.
For all other batteries, please view the section on how to remove the battery from the product safely.
Hand the battery over to the applicable collection point for the recycling of waste batteries.
For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Notice for customers in the United Kingdom

A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.
Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied one and approved by ASTA or BSI to BS 1362, (i.e., marked with an ASTA or ♡ mark) must be used.
If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

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Table of contents

Getting started

Refer to “Cyber-shot Handbook” (PDF) on supplied CD-ROM 8
Checking the accessories supplied 8
Notes on using the camera 8
Identifying parts 12
Battery charging and the number of images/time that can be recorded 13
Inserting the battery pack/a memory card (sold separately) ... 16
Setting the date and time/display color 19

GB

Shooting/viewing images

Shooting still images 21
Shooting movies 22
Viewing images 23

“Cyber-shot Handbook” (PDF)

Learning more about the camera (“Cyber-shot Handbook”) 24

Others

List of icons displayed on the screen 25
Number of still images and recordable time of movies 27
Precautions 29
Specifications 31

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Refer to “Cyber-shot Handbook” (PDF) on supplied CD-ROM

For details on advanced operations, please read “Cyber-shot Handbook” (PDF) on the CD-ROM (supplied) using a computer.
Refer to “Cyber-shot Handbook” for in-depth instructions on shooting or viewing images and connecting the camera to your computer, printer or TV (page 24).

Checking the accessories supplied

- Battery charger BC-CSN/BC-CSNB (1)
- Power cord (mains lead) (not supplied in the USA and Canada) (1)
- Rechargeable battery pack NP-BN1 (1)
- USB, A/V cable for multi-use terminal (1)
- Wrist strap (1)
- CD-ROM (1)
  – Cyber-shot application software
  – “Cyber-shot Handbook”
- Instruction Manual (this manual) (1)

Notes on using the camera

Changing the language setting

The screen language can be changed if necessary.
To change the language setting, press MENU → (Settings) → (Main Settings) → [Language Setting].

Internal memory and memory card back up

Do not turn off the camera, remove the battery pack, or remove the memory card while the access lamp is lit. Otherwise, the internal memory data or the memory card may be damaged. Be sure to make a backup copy to protect your data.

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Functions built into this camera

- This manual describes each of the functions of TransferJet-compatible/incompatible devices, 1080 60i-compatible devices and 1080 50i-compatible devices.
  To check if your camera supports the TransferJet function, and whether it is a 1080 60i-compatible device or 1080 50i-compatible device, check for the following marks on the bottom of the camera.
  TransferJet-compatible device: (TransferJet)
  1080 60i-compatible device: 60i
  1080 50i-compatible device: 50i
- Do not watch 3D images shot with this camera for extended periods of time on 3D-compatible monitors.
- When you view 3D images shot with this camera on a 3D-compatible monitors, you may experience discomfort in the form of eye strain, fatigue, or nausea. To prevent these symptoms, we recommend that you take regular breaks. However, you need to determine for yourself the length and frequency of breaks you require, as they vary according to the individual. If you experience any type of discomfort, stop viewing the 3D images until you feel better, and consult a physician as necessary. Also refer to the operating instructions supplied with the device or software you have connected or are using with this camera. Note that a child's eyesight is still at the development stage (particularly children below the age of 6). Consult a pediatrician or ophthalmologist before letting your child view 3D images, and make sure he/she observes the above precautions when viewing such images.

On database files

When you insert a memory card without a database file into the camera and turn on the power, part of the memory card capacity is used to automatically create a database file. It may take some time until you can perform the next operation.

Notes on recording/playback

- To ensure stable operations of the memory card, we recommend that you use this camera to format any memory card being used with this camera for the first time. Note that formatting will erase all data recorded on the memory card. This data cannot be restored. Be sure to backup any important data to a PC or other storage location.
- If you repeatedly record/delete images, fragmentation of data may occur on the memory card. Movies may not be able to be saved or recorded. In such a case, save your images to a PC or other storage location, then [Format].
- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- The camera is neither dust-proof, nor splash-proof, nor water-proof. Read "Precautions" (page 29) before operating the camera.

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- Avoid exposing the camera to water. If water enters inside the camera, a malfunction may occur. In some cases, the camera cannot be repaired.
- Do not aim the camera at the sun or other bright light. It may cause the malfunction of the camera.
- Do not use the camera near a location that generates strong radio waves or emits radiation. Otherwise, the camera may not properly record or play back images.
- Using the camera in sandy or dusty locations may cause malfunctions.
- If moisture condensation occurs, remove it before using the camera.
- Do not shake or strike the camera. It may cause a malfunction and you may not be able to record images. Furthermore, the recording media may become unusable or image data may be damaged.
- Clean the flash surface before use. The heat of flash emission may cause dirt on the flash surface to become discolored or to stick to the flash surface, resulting in insufficient light emission.

Notes on the LCD screen and lens

- The LCD screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process, and do not affect the recording.
- When the battery level becomes low, the lens might stop moving. Insert a charged battery pack and turn on the camera again.

On camera’s temperature

Your camera and battery may get warm due to continuous use, but it is not a malfunction.

On the overheat protection

Depending on the camera and battery temperature, you may be unable to record movies or the power may turn off automatically to protect the camera. A message will be displayed on the LCD screen before the power turns off or you can no longer record movies.

On image data compatibility

- The camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Sony does not guarantee that the camera will play back images recorded or edited with other equipment, or that other equipment will play back images recorded with the camera.

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Importing AVCHD movies into a computer

When importing movies recorded in AVCHD format into a computer, for Windows use the “PMB” software on the CD-ROM (supplied) or for Macintosh use the “iMovie” software bundled with Macintosh computers.

Notes when playing movies on other devices

This camera uses MPEG-4 AVC/H.264 High Profile for AVCHD format recording. Movies recorded in AVCHD format with this camera cannot be played by the following devices.

– Other devices compatible with AVCHD format that does not support High Profile
– Devices incompatible with the AVCHD format

This camera also uses MPEG-4 AVC/H.264 Main Profile for MP4 format recording. For this reason, movies recorded in MP4 format with this camera cannot be played on devices other than those that support MPEG-4 AVC/H.264.

Discs recorded with HD (high definition) image quality

This camera captures high definition footage in the AVCHD format. DVD media containing AVCHD footage should not be used with DVD based players or recorders, as the DVD player/recorder may fail to eject the media and may erase its contents without warning. DVD media containing AVCHD footage may be played on a compatible Blu-ray Disc™ player/recorder or other compatible device.

Warning on copyright

Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

No compensation for damaged content or recording failure

Sony cannot compensate for failure to record or loss or damage of recorded content due to a malfunction of the camera or recording media, etc.

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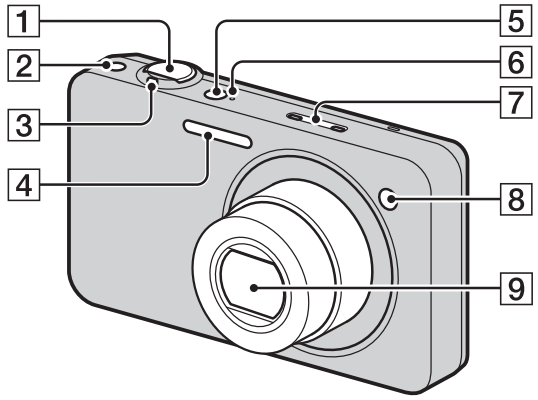
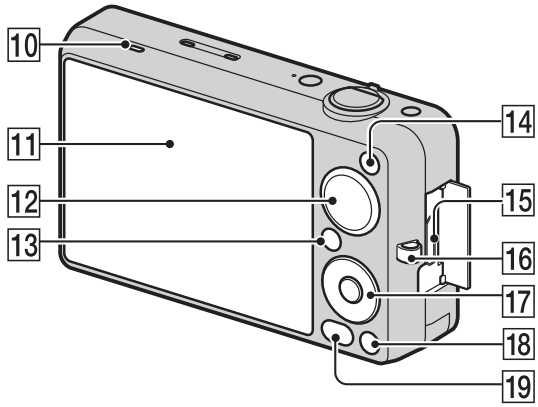
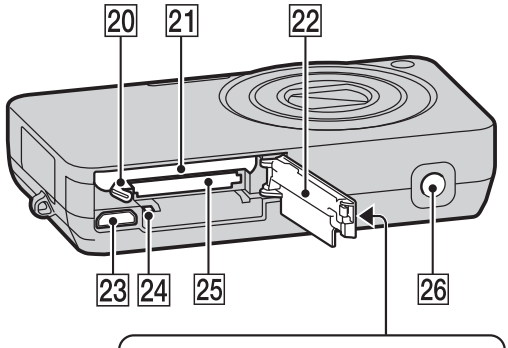
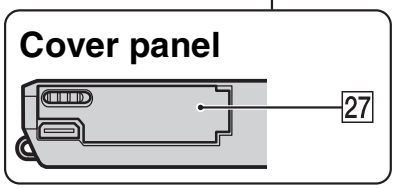
Identifying parts

Camera









1 Shutter button
2 (Burst) button
3 For shooting: W/T (zoom) lever
For viewing: (Playback zoom) lever/ (Index) lever
4 Flash
5 ON/OFF (Power) button
6 Power lamp
7 Microphone
8 Self-timer lamp/Smile Shutter lamp/AF illuminator
9 Lens
10 Speaker
11 LCD screen
12 Mode dial
13 (Playback) button
14 MOVIE (Movie) button
15 HDMI connector
16 Hook for wrist strap
17 Control button
Menu on: ▲/▼/◀/▶/●
Menu off: DISP/ / / /
Tracking focus
18 (Delete) button
19 MENU button
20 Battery eject lever
21 Battery insertion slot
22 Battery/Memory card cover
23 Multi connector
24 Access lamp
25 Memory card slot
26 Tripod receptacle
- Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.

27 (TransferJet™) mark

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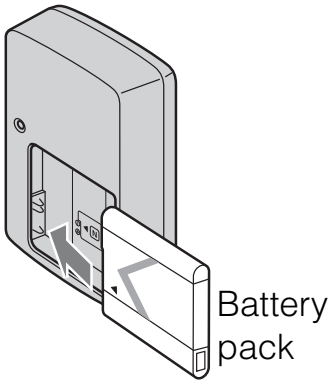
Battery charging and the number of images/time that can be recorded

1 Insert the battery pack into the battery charger.

- You can charge the battery even when it is partially charged.

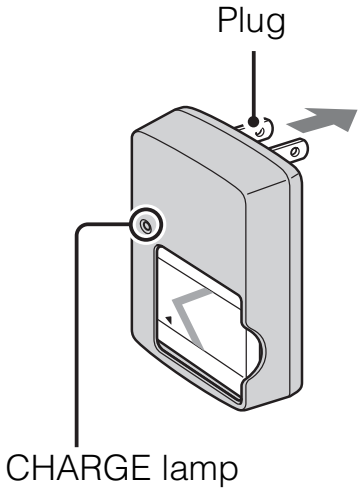


2 Connect the battery charger to the wall outlet (wall socket).

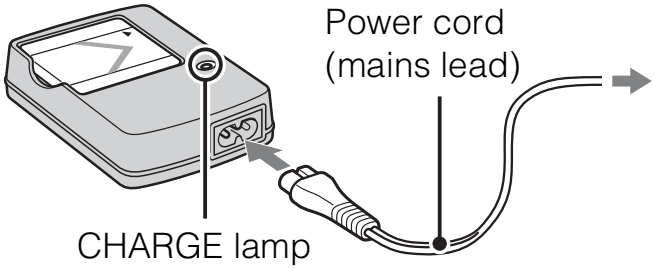
If you continue charging the battery pack for about one more hour after the CHARGE lamp turns off, the charge will last slightly longer (full charge).

CHARGE lamp
Lit: Charging
Off: Charging finished (normal charge)

For customers in the USA and Canada



For customers in countries/regions other than the USA and Canada



3 When charging is finished, disconnect the battery charger.

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Charging time

Full charge time	Normal charge time
Approx. 245 min.	Approx. 185 min.

Notes

- The table above shows the time required to charge a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.
- Connect the battery charger to the nearest wall outlet (wall socket).
- When charging is finished, disconnect the power cord (mains lead) and the battery charger from the wall outlet (wall socket), and remove the battery pack from the battery charger.
- Be sure to use the battery pack or the battery charger of the genuine Sony brand.

Battery life and number of images you can record/view

	Battery life (min.)	No. of Images
Shooting still images	Approx. 115	Approx. 230
Viewing still images	Approx. 190	Approx. 3800
Shooting movies	Approx. 60	—

Notes

- The number of images that can be recorded is an approximate number when shooting with a fully charged battery pack. The number may be less depending on the circumstances.
- The number of images that can be recorded is when shooting under the following conditions:
  – Using Sony “Memory Stick PRO Duo” media (sold separately).
  – When a fully charged battery pack (supplied) is used at an ambient temperature of 25°C (77°F).
- The number of still images that can be recorded is based on the CIPA standard, and is for shooting under the following conditions.
  (CIPA: Camera & Imaging Products Association)
  – DISP (Screen Display Settings) is set to [Normal].
  – Shooting once every 30 seconds.
  – The zoom is switched alternately between the W and T ends.
  – The flash strobes once every two times.
  – The power turns on and off once every ten times.

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- The battery life for movies is when shooting under the following conditions:
  – Recording mode: AVCHD HQ
  – When continuous shooting ends because of set limits (page 28), press the shutter button down again and continue shooting. Shooting functions such as the zoom do not operate.

Using the camera abroad

You can use the camera and the battery charger (supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50/60 Hz.
An electronic transformer (travel converter) is unnecessary. Do not use an electronic transformer, as this may cause a malfunction.

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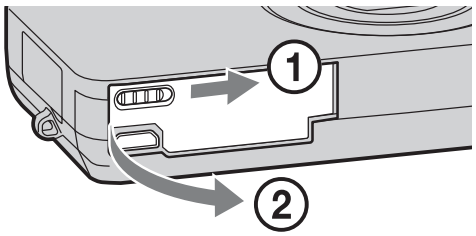
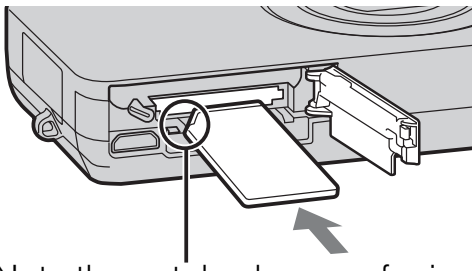
Inserting the battery pack/a memory card (sold separately)

1 Open the cover.



2 Insert a memory card (sold separately).

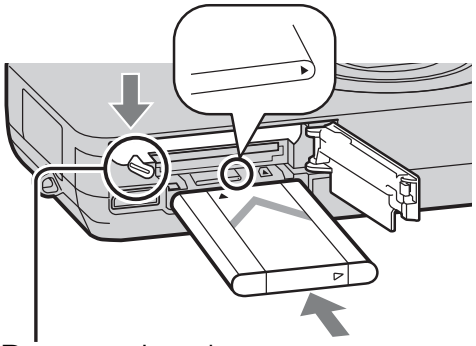
With the notched corner facing as illustrated, insert the memory card until it clicks into place.



Note the notched corner facing the correct direction.

3 Insert the battery pack.

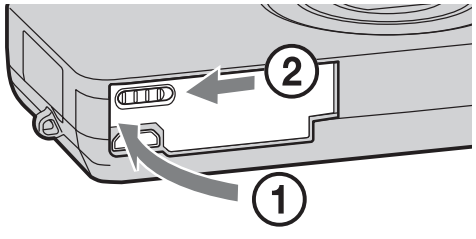
Align the battery pack with the guide arrow inside the battery insertion slot. Then, insert the battery pack until the battery eject lever locks into place.



Battery eject lever

4 Close the cover.

- Closing the cover with the battery inserted incorrectly may damage the camera.



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Memory card that you can use

The following memory cards are compatible with this camera: “Memory Stick PRO Duo” media, “Memory Stick PRO-HG Duo” media, “Memory Stick Duo” media, SD memory card, SDHC memory card and SDXC memory card. However, all memory cards are not guaranteed to work with this camera. MultiMediaCard cannot be used.

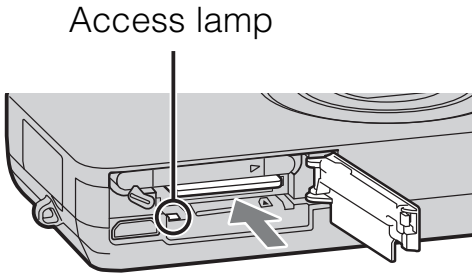
- In this manual, the term “Memory Stick Duo” media is used to refer to “Memory Stick PRO Duo” media, “Memory Stick PRO-HG Duo” media and “Memory Stick Duo” media, and the term “SD card” is used to refer to SD memory card, SDHC memory card and SDXC memory card.
- When recording movies, it is recommended that you use the following memory cards:
  – MEMORY STICK PRO DUO (Mark2) (“Memory Stick PRO Duo” (Mark2) media)
  – MEMORY STICK PRO-HG DUO (“Memory Stick PRO-HG Duo” media)
  – SD memory card, SDHC memory card or SDXC memory card (Class 4 or faster)

For details on the number of images/time that can be recorded, see page 27.

Note

- Images recorded on an SDXC memory card cannot be transferred or played back on computers or AV devices that are not exFAT-compatible, even when the camera is connected to the computer or AV device using a USB cable. Before connecting, make sure that the device is exFAT-compatible. If connected to a device that is not exFAT-compatible, a format drive request may appear. Do not format the drive, or all data will be lost. (exFAT is the file system used by SDXC memory cards.)

To remove the memory card



Make sure that the access lamp is not lit, then push the memory card in once.

Note

- Never remove the memory card/the battery pack when the access lamp is lit. This may cause damage to data or the memory card.

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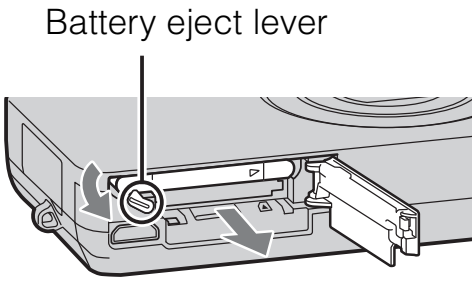
When there is no memory card inserted

Images are stored in the camera's internal memory (approximately 32 MB). To copy images from the internal memory to a memory card, insert a memory card in the camera, then select MENU → (Settings) → (Memory Card Tool) → [Copy].

To remove the battery pack



Slide the battery eject lever. Be sure not to drop the battery pack.

Checking the remaining battery charge

A remaining charge indicator appears on the LCD screen.

Notes

- It takes about one minute until the correct remaining charge indicator appears.
- The remaining charge indicator may not be correct under certain circumstances.
- When [Power Save] is set to [Standard] or [Stamina], if you do not operate the camera for a certain period of time while the power is on, the LCD screen becomes dark, then the camera turns off automatically (Auto power-off function).
- To keep clean battery pack terminal and prevent short-circuiting, place the battery pack in a plastic bag, etc. when carrying and storing to isolate it from other metal objects, etc.

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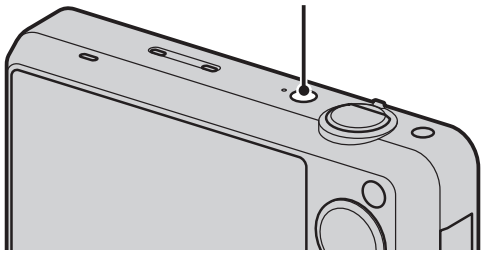
Setting the date and time/display color

1 Press the ON/OFF (Power) button.

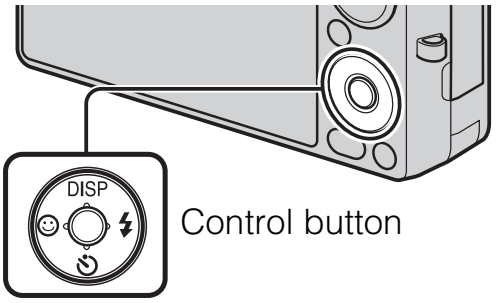
The camera is turned on. The power lamp lights up only when the camera starts up.

- It may take time for the power to turn on and allow operation.



2 Select a setting item with ▲/▼ on the control button, then press ●.

Date & Time Format: Selects the date and time display format.
Daylight Savings: Selects Daylight Savings On/Off.
Date & Time: Sets the date and time.



3 Set the numeric value and desired settings with ▲/▼/◀/▶, then press ●.

- Midnight is indicated as 12:00 AM, and noon as 12:00 PM.

4 Select [OK], then press ●.

5 Follow the instructions on the screen. Select your desired area with ◀/▶ on the control button, then press ●.

6 Select [OK], then press ●.

7 Select desired display color, then press ●.

8 Select [OK], then press ●.

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Superimposing the date on the images

The camera does not have a feature for superimposing dates on images. By using “PMB” in the CD-ROM (supplied), you can print or save images with the date. For details, see the “PMB Help”.

Setting the date and time again

The date and time setup screen appears automatically only when the power is turned on the first time. To reset the date and time, display the date and time setup screen by pressing MENU → (Settings) → (Clock Settings) → [Date & Time Setting].

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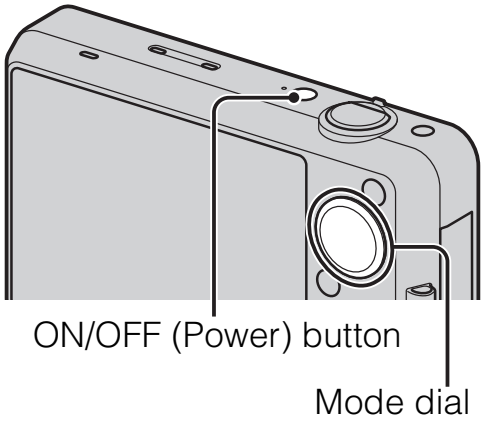
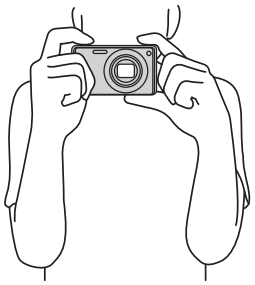
Shooting still images

1 Set the mode dial to iA (Intelligent Auto Adjustment), then press the ON/OFF (Power) button.



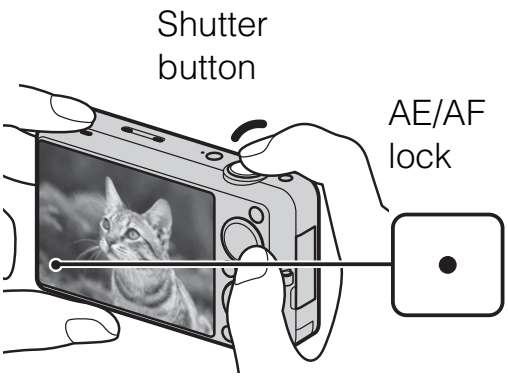
2 Hold the camera steady as illustrated.

- Turn the W/T (zoom) lever to the T side to zoom in, and to the W side to zoom out.

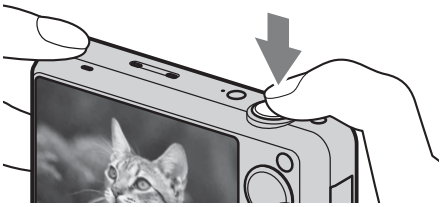


3 Press the shutter button halfway down to focus.

When the image is in focus, a beep sounds and the ● indicator lights.



4 Press the shutter button fully down.



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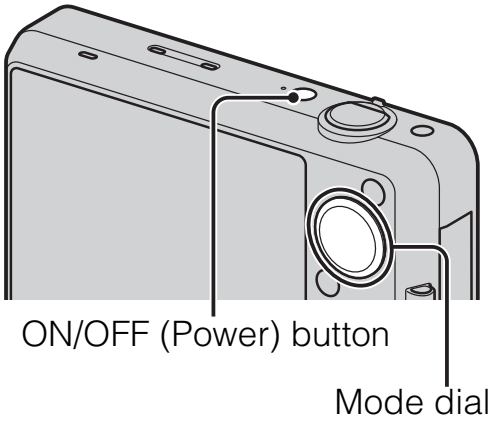
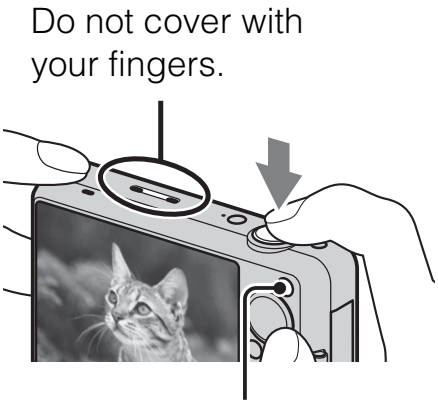
Shooting movies

1 Set the mode dial to (Movie Mode), then press the ON/OFF (Power) button.



2 Press the shutter button to start recording.

- You can also record movies by pressing the MOVIE (Movie) button.
- Do not cover the microphone.



3 Press the shutter button again to stop recording.

Notes

- The operating sound of the lens is recorded when the zoom function operates while shooting a movie.
- The continuous shooting time of movies is possible for approximately 29 minutes at one time, and may vary depending on shooting conditions.

Changing the Movie format

Press MENU → (Settings) → (Shooting Settings) → [Movie format].

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Viewing images

1 Press the ▶ (Playback) button.

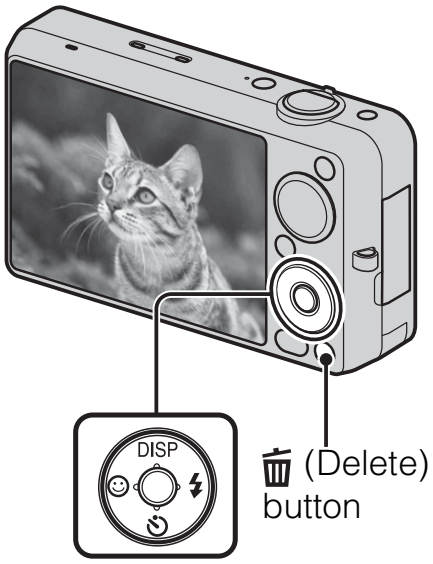
- When you play back images on a memory card that were recorded on other cameras, the database file registration screen appears.

▶ (Playback) button

Selecting next/previous image

Select an image using ▶ (next)/◀ (previous) on the control button.

- To play back movies, press ● on the control button.
- To zoom in, turn the Q (Playback zoom) lever to the T side.



(Delete) button

Control button

Deleting an image

① Press the 🗑 (Delete) button.

② Select [This Image] using ▲, then press ●.

Returning to shooting images

Press the ▶ (Playback) button.

- You can also return to shooting mode by pressing the shutter button halfway down.

Turning off the camera

Press the ON/OFF (Power) button.

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Learning more about the camera (“Cyber-shot Handbook”)

“Cyber-shot Handbook”, which explains how to use the camera in detail, is included on the CD-ROM (supplied). Refer to it for in-depth instructions on the many functions of the camera.

For Windows users

1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

2 Click [Handbook].

3 Click [Install].

4 Start “Cyber-shot Handbook” from the shortcut on the desktop.

For Macintosh users

1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

2 Select the [Handbook] folder and copy “Handbook.pdf” stored in the [GB] folder to your computer.

3 After copying is complete, double-click “Handbook.pdf”.

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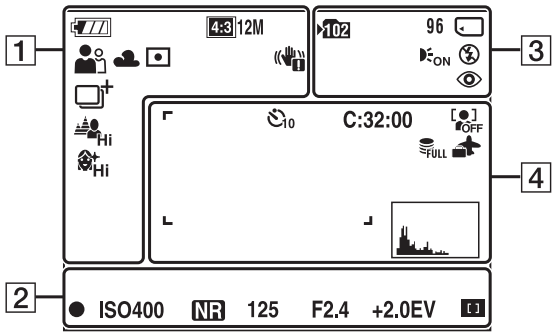
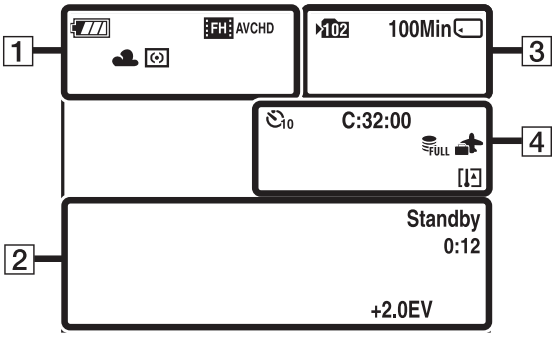
List of icons displayed on the screen

You can change the screen display using DISP (Screen Display Settings) on the control button.

When shooting still images



When shooting movies



1

Display	Indication
	Battery remaining
	Low battery warning
4:3 12M	Image Size/Panorama image size/Quality
	Scene Selection
iA	Shooting mode (Intelligent Auto Adjustment/Superior Auto Adjustment/ Background Defocus/ Program Auto/Scene Selection/iSweep Panorama/3D Sweep Panorama/Sweep Multi Angle/Movie Mode)

Display	Indication
	Scene Recognition icon
	White Balance
	Metering Mode
3D	3D images
	Vibration warning
	Anti Blink
iSCN+	Scene Recognition
	Overlay icon for Superior Auto Adjustment
Hi	Defocus Effect
Hi	Soft Skin Effect
Hi	Burst Shooting Interval
[ ]	Smile Detection Sensitivity indicator
W T ×1.4 s P	Zoom scaling

GB

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2

Display	Indication
●	AE/AF lock
ISO400	ISO number
NR	NR slow shutter
125	Shutter speed
F2.4	Aperture value
+2.0EV	Exposure value
[ ]	Focus
Standby	Recording a movie/ Standby
0:12	Recording time (m:s)

3

Display	Indication
102	Recording folder
96	Number of recordable images
100Min	Recordable time
	Recording/Playback Media (Memory card, internal memory)
	Eye-Fi Mode display
ON	AF illuminator
	Red-eye reduction
	Flash mode
	Flash charging

4

Display	Indication
10	Self-timer
C:32:00	Self-diagnosis display
	Overheating warning
	Face Detection
FULL	Database file full/ Database file error warning
	Destination
	AF range finder frame
+	Spot metering cross-hairs
	Histogram • ⊗ appears when histogram display is disabled.

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Number of still images and recordable time of movies

The number of still images and recordable time may vary depending on the shooting conditions and the memory card.

Still images

(Units: Images)

Capacity / Size	Internal memory	Memory card formatted with this camera				
	Approx. 32 MB	2 GB	4 GB	8 GB	16 GB	32 GB
12M	6	344	690	1397	2846	5625
8M	8	482	967	1959	3990	7884
5M	10	582	1168	2366	4819	9524
VGA	207	11760	23600	47810	97350	192380
16:9(9M)	6	382	766	1552	3160	6246
16:9(2M)	32	1838	3688	7470	15210	30060

Notes

- When the number of remaining shootable images is greater than 99,999, the ">99999" indicator appears.
- When an image shot with other cameras is played back on this camera, the image may not appear in the actual image size.

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Movies

The table below shows the approximate maximum recording times. These are the total times for all movie files. Continuous shooting is possible for approximately 29 minutes at one time. The maximum size of an MP4-format movie file is up to approximately 2GB.

(Units: hour : minute : second)

Capacity / Quality/Size	Internal memory	Memory card formatted with this camera				
	Approx. 32 MB	2 GB	4 GB	8 GB	16 GB	32 GB
AVC HD 17M FH	—	0:14:00	0:28:30	0:58:10	1:58:50	3:55:20
AVC HD 9M HQ	—	0:28:00	0:57:00	1:56:20	3:57:50	7:50:40
MP4 12M	—	0:20:40	0:41:40	1:24:40	2:52:30	5:41:00
MP4 6M	—	0:40:40	1:21:50	2:45:50	5:37:50	11:07:50
MP4 3M	0:01:10	1:15:10	2:31:10	5:06:20	10:23:50	20:33:00

Note

- The recordable time of movies may vary depending on the shooting conditions (temperature, etc.). The value above applies when DISP (Screen Display Settings) is set to [Normal].

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Precautions

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places
  Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying

Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

On cleaning

Cleaning the LCD screen

Wipe the screen surface with an LCD cleaning kit (sold separately) to remove fingerprints, dust, etc.

Cleaning the lens

Wipe the lens with a soft cloth to remove fingerprints, dust, etc.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

– Do not expose the camera to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
– Do not touch the camera with any of the above on your hand.
– Do not leave the camera in contact with rubber or vinyl for a long time.

On operating temperatures

Your camera is designed for use under the temperatures between 0°C and 40°C (32°F and 104°F). Shooting in extremely cold or hot places that exceed this range is not recommended.

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On the internal rechargeable backup battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off.
This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera.
However, even if this rechargeable battery is not charged, you can still use the camera, but the date and time will not be indicated.

Charging method of the internal rechargeable backup battery

Insert charged battery pack in the camera, and then leave the camera for 24 hours or more with the power off.

Eye-Fi card

As of March 2010, Eye-Fi cards are sold in the U.S.A., Canada, Japan and some countries in the European Union.

– For more information on the Eye-Fi card, contact the manufacturer or seller of Eye-Fi card directly.
– Eye-Fi cards are permitted only in the countries and regions in which they were purchased. You may be held liable due to local restrictions.

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Specifications

Camera

[System]

Image device: 7.81 mm (1/2.3 type)
Exmor R CMOS sensor
Total pixel number of camera:
Approx. 12.8 Megapixels
Effective pixel number of camera:
Approx. 12.2 Megapixels
Lens: Sony G 5× zoom lens
f = 4.25 mm – 21.25 mm (24 mm – 120 mm (35 mm film equivalent)), F2.4 (W) – F5.9 (T)
While shooting movies (16:9):
28 mm – 140 mm
While shooting movies (4:3):
34 mm – 170 mm
Exposure control: Automatic exposure, Scene Selection (14 modes)
White balance: Auto, Daylight, Cloudy, Fluorescent 1/2/3, Incandescent, Flash, One Push
Signal format:
For 1080 50i: PAL color, CCIR standards HDTV 1080/50i specification
For 1080 60i: NTSC color, EIA standards HDTV 1080/60i specification
File format:
Still images: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, DPOF compatible
3D still images: MPO (MPF Extended (Disparity Image)) compliant
Movies (AVCHD format):
AVCHD Ver. 1.0 compliant
Video: MPEG-4 AVC/H.264
Audio: Dolby Digital 2ch, equipped with Dolby Digital Stereo Creator
• Manufactured under license from Dolby Laboratories.
Movies (MP4 format):
Video: MPEG-4 AVC/H.264
Audio: MPEG-4 AAC-LC 2ch
Recording media: Internal Memory (Approx. 32 MB), “Memory Stick Duo” media, SD card
Flash: Flash range (ISO sensitivity (Recommended Exposure Index) set to Auto):
Approx. 0.2 m to 5.1 m (W)
(7 7/8 inches to 16 ft 8 3/4 inches)
Approx. 0.9 m to 2.1 m (T)
(2 ft 11 3/8 inches to 6 ft 10 5/8 inches)

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[Input and Output connectors]

HDMI connector: HDMI mini terminal
Multi use terminal: Type3
(AV-out (SD/HD Component)/ HDMI/USB/DC-in):
Video output
Audio output (Stereo)
USB communication
USB communication: Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel: 7.0 cm (2.8 type) TFT drive
Total number of dots: 460 800 (960 × 480) dots

[Power, general]

Power: Rechargeable battery pack NP-BN1, 3.6 V
AC-LS5 AC Adaptor (sold separately), 4.2 V
Power consumption (during shooting): 1.0 W
Operating temperature: 0°C to 40°C (32°F to 104°F)
Storage temperature: –20°C to +60°C (–4°F to +140°F)
Dimensions: 91.7 × 51.9 × 21.5 mm (3 5/8 × 2 1/8 × 7/8 inches) (W/H/D, excluding protrusions)
Mass (including NP-BN1 battery pack and “Memory Stick Duo” media): Approx. 146 g (5.2 oz)
Microphone: Stereo
Speaker: Monaural
Exif Print: Compatible
PRINT Image Matching III: Compatible

BC-CSN/BC-CSNB battery charger

Power requirements: AC 100 V to 240 V, 50/60 Hz, 2 W
Output voltage: DC 4.2 V, 0.25 A
Operating temperature: 0°C to 40°C (32°F to 104°F)
Storage temperature: –20°C to +60°C (–4°F to +140°F)
Dimensions: Approx. 55 × 24 × 83 mm (2 1/4 × 31/32 × 3 3/8 inches) (W/H/D)
Mass: Approx. 55 g (1.9 oz)

Rechargeable battery pack NP-BN1

Used battery: Lithium-ion battery
Maximum voltage: DC 4.2 V
Nominal voltage: DC 3.6 V
Maximum charge voltage: DC 4.2 V
Maximum charge current: 0.9 A
Capacity:
typical: 2.3 Wh (630 mAh)
minimum: 2.2 Wh (600 mAh)

Design and specifications are subject to change without notice.

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Table of contents

Operation Search

MENU/Settings Search

Index

Cyber-shot

Cyber-shot Handbook

DSC-WX5/WX5C

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How to use this handbook

Click on a button at upper right to jump to the corresponding page.
This is convenient when searching for a function you want to view.

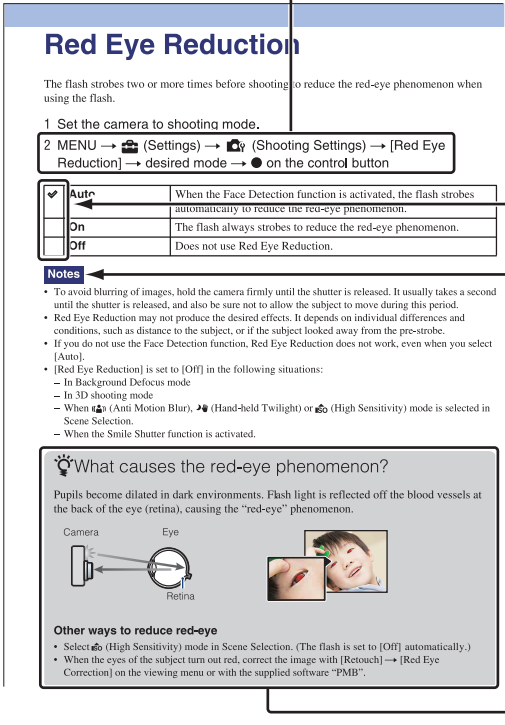
Search for information by function.

Search for information by operation.

Search for information in a listing of MENU/Settings items.

Search for information by keyword.

Marks and notations used in this handbook


Red Eye Reduction
The flash strobes two or more times before shooting to reduce the red-eye phenomenon when using the flash.
1 Set the camera to shooting mode.
2 MENU → (Settings) → (Shooting Settings) → [Red Eye Reduction] → desired mode → ● on the control button
Auto
When the Face Detection function is activated, the flash strobes automatically to reduce the red-eye phenomenon.
On
The flash always strobes to reduce the red-eye phenomenon.
Off
Does not use Red Eye Reduction.
Notes
• To avoid blurring of images, hold the camera firmly until the shutter is released. It usually takes a second until the shutter is released, and also be sure not to allow the subject to move during this period.
• Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or if the subject looked away from the pre-strobe.
• If you do not use the Face Detection function, Red Eye Reduction does not work, even when you select [Auto].
• [Red Eye Reduction] is set to [Off] in the following situations:
– In Background Defocus mode
– In 3D shooting mode
– When (Anti Motion Blur), (Hand-held Twilight) or (High Sensitivity) mode is selected in Scene Selection.
– When the Smile Shutter function is activated.
What causes the red-eye phenomenon?
Pupils become dilated in dark environments. Flash light is reflected off the blood vessels at the back of the eye (retina), causing the "red-eye" phenomenon.
Camera
Eye
Retina
Other ways to reduce red-eye
• Select (High Sensitivity) mode in Scene Selection. (The flash is set to [Off] automatically.)
• When the eyes of the subject turn out red, correct the image with [Retouch] → [Red Eye Correction] on the viewing menu or with the supplied software "PMB".

In this handbook, the sequence of operations is shown by arrows (→). Operate the camera in the order indicated. Marks are shown as they appear in the camera's default setting.

The default setting is indicated by ✓.

Indicates cautions and limitations relevant to the correct operation of the camera.

Indicates information that is useful to know.

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Notes on using the camera

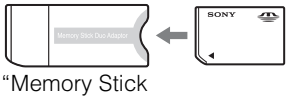
Notes on the types of memory cards that you can use (sold separately)

The following memory cards are compatible with this camera: “Memory Stick PRO Duo” media, “Memory Stick PRO-HG Duo” media, “Memory Stick Duo” media, SD memory card, SDHC memory card and SDXC memory card.
MultiMediaCard cannot be used.
In this manual, the term “Memory Stick Duo” media is used to refer to “Memory Stick PRO Duo” media, “Memory Stick PRO-HG Duo” media and “Memory Stick Duo” media, and the term “SD card” is used to refer to SD memory card, SDHC memory card and SDXC memory card.

- “Memory Stick Duo” media with a capacity up to 32 GB and SD card up to 64 GB have been confirmed to operate properly with the camera.
- When recording movies, it is recommended that you use the following memory cards:
  - MEMORY STICK PRO DUO (Mark2) (“Memory Stick PRO Duo” (Mark2) media)
  - MEMORY STICK PRO-HG DUO (“Memory Stick PRO-HG Duo” media)
  - SD memory card, SDHC memory card or SDXC memory card (Class 4 or faster)
- For details on “Memory Stick Duo” media, see page 158.

When using a “Memory Stick Duo” media with standard sized “Memory Stick” media slot

You can use the “Memory Stick Duo” media by inserting it into the “Memory Stick Duo” media Adaptor (sold separately).



“Memory Stick Duo” media Adaptor

Functions built into this camera

- This manual describes each of the functions of TransferJet-compatible/incompatible devices, 1080 60i-compatible devices and 1080 50i-compatible devices.
  To check if your camera supports the TransferJet function, and whether it is a 1080 60i-compatible device or 1080 50i-compatible device, check for the following marks on the bottom of the camera.
  TransferJet-compatible device: (TransferJet)
  1080 60i-compatible device: 60i
  1080 50i-compatible device: 50i
- Do not watch 3D images shot with this camera for extended periods of time on 3D-compatible monitors.
- When you view 3D images shot with this camera on a 3D-compatible monitors, you may experience discomfort in the form of eye strain, fatigue, or nausea. To prevent these symptoms, we recommend that you take regular breaks. However, you need to determine for yourself the length and frequency of breaks you require, as they vary according to the individual. If you experience any type of discomfort, stop viewing the 3D images until you feel better, and consult a physician as necessary. Also refer to the operating instructions supplied with the device or software you have connected or are using with this camera. Note that a child’s eyesight is still at the development stage (particularly children below the age of 6). Consult a pediatrician or ophthalmologist before letting your child view 3D images, and make sure he/she observes the above precautions when viewing such images.

Notes on the battery pack

- Charge the battery pack (supplied) before using the camera for the first time.
- You can charge the battery pack even if it is not completely discharged. In addition, even if the battery pack is not fully charged, you can use the partially charged capacity of the battery pack as is.
- If you do not intend to use the battery pack for a long time, use up the existing charge and remove it from the camera, then store it in a cool, dry place. This is to maintain the battery pack functions.
- For details on the usable battery pack, see page 160.

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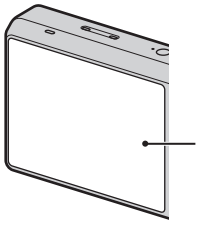
Continued ↓

Notes on the LCD screen and lens

- The LCD screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process and do not affect the recording.



- Exposing the LCD screen or the lens to direct sunlight for long periods may cause malfunctions. Be careful when placing the camera near a window or outdoors.
- Do not press against the LCD screen. The screen may be discolored and that may cause a malfunction.
- Images may trail across on the LCD screen in a cold location. This is not a malfunction.
- Be careful not to bump the movable lens, and be careful not to apply force to it.

On moisture condensation

- If the camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera. This moisture condensation may cause a malfunction of the camera.
- If moisture condensation occurs, turn off the camera and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

The images used in this Handbook

The images used as examples in this Handbook are reproduced images, and are not actual images shot using this camera.

Note when playing movies on other devices

This camera uses MPEG-4 AVC/H.264 High Profile for AVCHD format recording. Movies recorded in AVCHD format with this camera cannot be played by the following devices.

– Other devices compatible with AVCHD format that do not support High Profile
– Devices incompatible with the AVCHD format

This camera also uses MPEG-4 AVC/H.264 Main Profile for MP4 format recording. For this reason, movies recorded in MP4 format with this camera cannot be played on devices other than those that support MPEG-4 AVC/H.264.

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Table of contents

Notes on using the camera

How to use this handbook 2
Notes on using the camera 3
Operation Search 9
MENU/Settings Search 12
Identifying parts 16
List of icons displayed on the screen 17
Using the internal memory 19

Shooting

Using the mode dial 20
Intelligent Auto Adjustment 21
Superior Auto Adjustment 22
Background Defocus 24
Program Auto 25
Scene Selection 26
Intelligent Sweep Panorama 29
Movie Mode 31
Zoom 32
Tracking focus 33
DISP (Screen Display Settings) 34
Flash 36
Smile Shutter 37
Self-Timer 38
Burst button 40
MOVIE (Movie) button 41

Downloaded From camera-usermanual.com Sony Manuals

Viewing

Viewing still images 42
Playback zoom 43
Image Index 44
Delete 45
Viewing burst images 47
Viewing movies 49

3D images

3D Functions 51
3D Shooting 53
Viewing images shot in Sweep Multi Angle mode stereoscopically 55
Viewing an image on a 3D TV 56

MENU (Shooting)

MENU items (Shooting) 12

MENU (Viewing)

MENU items (Viewing) 13

Settings

Setting items 14

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TV

Viewing an image on a Standard Definition (SD) TV 127
Viewing an image on a High Definition (HD) TV 128
Viewing an image on a “BRAVIA” Sync-compatible TV 131

Computer

Using with your computer 133
Using the software 134
Connecting the camera to a computer 136
Uploading images to a media service 138
Creating a disc of movies 140

Printing

Printing still images 143

Troubleshooting

Troubleshooting 144
Warning indicators and messages 152

Downloaded From camera-usermanual.com Sony Manuals

Others

Using the camera abroad 157
Memory card 158
Battery pack 160
Battery charger 161
Intelligent Pantilter 162
AVCHD format 163
TransferJet standard 164
Number of still images and recordable time of movies 165
Precautions 167

Index

Index 168

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Operation Search

Leaving the settings to the camera	Intelligent Auto Adjustment 21
	Superior Auto Adjustment 22
	Scene Selection 26
	Scene Recognition 74
Shooting movies	Movie Mode 31
	MOVIE (Movie) button 41
	Movie format 95
Shooting 3D images	3D Sweep Panorama 53
	Sweep Multi Angle 53
Shooting portraits	Background Defocus 24
	Soft Skin 26
	Soft Snap 26
	Anti Motion Blur 26
	Twilight Portrait 26
	Smile Shutter 37
	Scene Recognition 74
	Face Detection 78
	Anti Blink 80
	Red Eye Reduction 100
Shooting panoramic images	Intelligent Sweep Panorama 29
Shooting moving objects	Movie Mode 31
	Tracking focus 33
	Burst Settings 65

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Shooting without blur	Anti Motion Blur ... 26 Hand-held Twilight ... 26 High Sensitivity ... 27 2-second delay self-timer ... 38 ISO ... 68
Shooting with backlight	Backlight Correction HDR ... 26 Forced Flash ... 36 Scene Recognition ... 74
Shooting in dark places	Anti Motion Blur ... 26 High Sensitivity ... 27 Slow Synchro ... 36 ISO ... 68
Changing focus position	Tracking focus ... 33 Focus ... 71 Face Detection ... 78
Changing image size/ quality	Image Size/Panorama Image Size/ Quality ... 62
Changing screen display	DISP (Screen Display Settings) ... 34 Function Guide ... 104
Deleting images	Delete ... 45, 90 Format ... 119
Displaying enlarged images	Playback zoom ... 43 Trimming (Resize) ... 89
Editing images	Retouch ... 89
Playing back a series of images in order	Slideshow ... 81

Downloaded From camera-usermanual.com Sony Manuals

Viewing 3D images	Viewing images shot in Sweep Multi Angle mode stereoscopically 55
Printing images with the date	“PMB (Picture Motion Browser)” 134
Changing date and time settings	Area Setting ..... 125 Date & Time Setting 126
Initializing settings	Initialize 107
Printing images	Printing still images 143
Viewing on TVs	Viewing an image on a 3D TV ..... 56 Viewing an image on a Standard Definition (SD) TV ..... 127 Viewing an image on a High Definition (HD) TV 128
Creating AVCHD format movie disc	Creating a disc of movies 140
Information about optional accessories	Intelligent Pantilter 162

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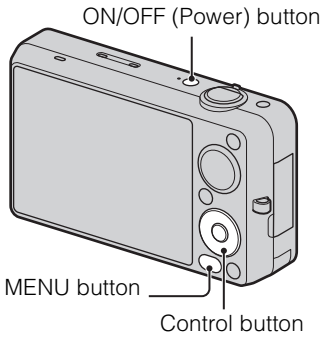
MENU/Settings Search

MENU items (Shooting)

You can select the various shooting functions easily from the MENU button.

1 Press the ON/OFF (Power) button and set the camera to shooting mode.
2 Press the MENU button to display the Menu screen.
3 Select the desired menu item with ▲/▼/◀/▶ on the control button.
4 Press the MENU button to turn off the Menu screen.



In the table below, ✓ indicates settings that can be changed, while – indicates settings that cannot be changed. A setting may be fixed or restricted depending on the shooting mode. For details, see the page for each item.
The icons below SCN indicate the available modes.

Menu items \ Mode dial	iA	iA+	Scene Selection	P	SCN	Sweep Panorama	3D Sweep Panorama	Movie
Scene Selection	—	—	—	—	✓	—	—	—
Easy Mode	✓	—	—	—	—	—	—	—
3D Shooting	—	—	—	—	—	—	✓	—
Shooting Direction	—	—	—	—	—	✓	✓	—
Defocus Effect	—	—	✓	—	—	—	—	—
Image Size/Panorama Image Size/Quality	✓	✓	✓	✓	✓	✓	✓	✓
Burst Settings	✓	—	—	✓		—	—	—
Burst Shooting Interval	✓	—	—	✓		—	—	—
EV	✓	✓	✓	✓		✓	✓	✓
ISO	—	—	—	✓	—	—	—	—
White Balance	—	—	—	✓		✓	✓	✓
Focus	—	—	—	✓		✓	✓	—
Metering Mode	—	—	—	✓		✓	✓	✓
Scene Recognition	✓	—	—	—	—	—	—	—
Soft Skin Effect	—	—	✓	—		—	—	—
Smile Detection Sensitivity	✓	—	—	✓		—	—	—
Face Detection	✓	✓	✓	✓		—	—	—

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Continued ↓

Mode dial / Menu items	iA	iA+	Scene	P	SCN	Sweep Panorama	3D	Movie
Anti Blink	—	—	—	—		—	—	—
(Settings)	✓	✓	✓	✓	✓	✓	✓	✓

Notes

- [Quality] is displayed only when [Movie format] is set to [AVCHD].
- Only the items that are available for each mode are displayed on the screen.

MENU items (Viewing)

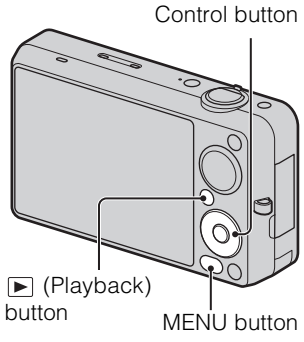
You can select the various viewing functions easily from the MENU button.

1 Press the ▶ (Playback) button to switch to playback mode.

2 Press the MENU button to display the Menu screen.

3 Select the desired menu item with ▲/▼/◀/▶ on the control button.

4 Press ● on the center of the control button.



In the table below, ✓ indicates settings that can be changed, while – indicates settings that cannot be changed.

View Mode / Menu items	Memory card				Internal Memory
	Date View	Folder view (Still)	Folder view (MP4)	AVCHD view	Folder View
(Slideshow)	✓	✓	—	—	✓
(3D Viewing)	✓	✓	—	—	✓
(Send by TransferJet)	✓	✓	—	—	—
(View Mode)	✓	✓	✓	✓	—
(Display Burst Group)	✓	—	—	—	—
(Retouch)	✓	✓	—	—	✓
(Delete)	✓	✓	✓	✓	✓
(Protect)	✓	✓	✓	✓	✓
DPOF	✓	✓	—	—	—
(Rotate)	✓	✓	—	—	✓
(Select Folder)	—	✓	✓	—	—
(Settings)	✓	✓	✓	✓	✓

Note

- Only the items that are available for each mode are displayed on the screen.

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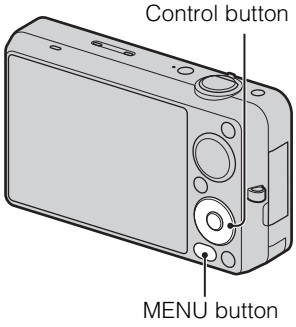
Setting items

You can change the settings on the (Settings) screen.

1 Press the MENU button to display the Menu screen.
2 Select (Settings) with ▼ on the control button, then press ● on the center of the control button to display the setup screen.
3 Select each item with ▲/▼/◀/▶, then ●.
4 Select the desired setting, then press ●.



Categories	Items
Shooting Settings	Movie format
	AF Illuminator
	Grid Line
	Digital Zoom
	Auto Orientation
	Red Eye Reduction
	Blink Alert
Main Settings	Beep
	Language Setting
	Function Guide
	Display color
	Demo Mode
	Initialize
	HDMI Resolution
	CTRL FOR HDMI
	COMPONENT
	USB Connect
	LUN Settings
	Download Music
	Format Music
	Power Save
	TransferJet
	Eye-Fi*

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Continued ↓

Categories	Items
Memory Card Tool	Format
	Create REC.Folder
	Change REC.Folder
	Delete REC.Folder
	Copy
	File Number
Internal Memory Tool	Format
	File Number
Clock Settings	Area Setting
	Date & Time Setting

* [Eye-Fi] appears only when an Eye-Fi card (commercially available) is inserted in the camera.

Notes

- [Shooting Settings] appears only when settings have been entered from shooting mode.
- [Memory Card Tool] appears only when a memory card is inserted in the camera, while [Internal Memory Tool] appears only when a memory card is not inserted.

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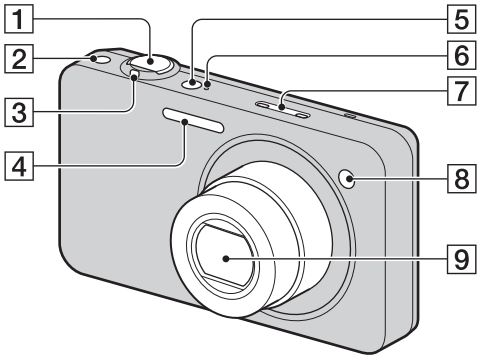
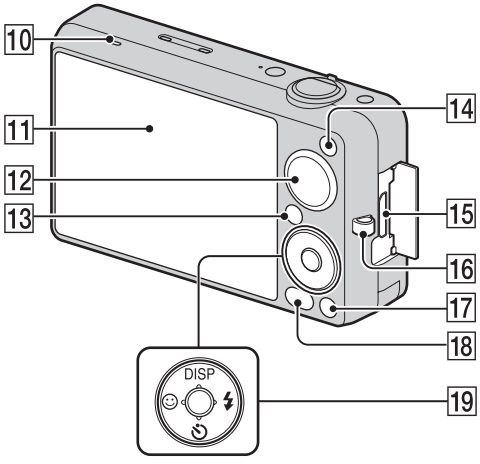
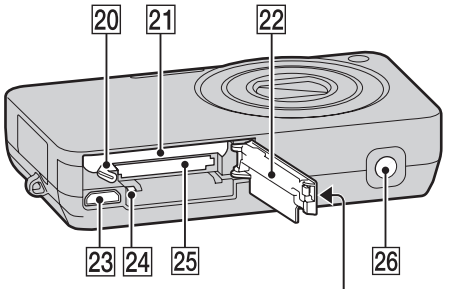
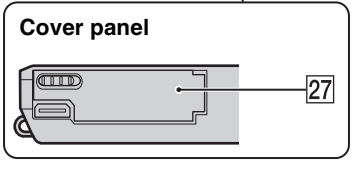
Identifying parts

Camera





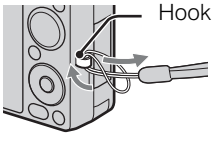




1 Shutter button
2 (Burst) button
3 For shooting: W/T (zoom) lever (32)
For viewing: (Playback zoom) lever/ (Index) lever (43, 44)
4 Flash
5 ON/OFF (Power) button
6 Power lamp
7 Microphone
8 Self-timer lamp/Smile Shutter lamp/AF illuminator
9 Lens
10 Speaker
11 LCD screen
12 Mode dial (20)
13 (Playback) button (42)
14 MOVIE (Movie) button (41)
15 HDMI connector
16 Hook for wrist strap*
17 (Delete) button (45)
18 MENU button (12)
19 Control button
Menu on: ▲/▼/◀/▶/●
Menu off: DISP/ /☺/ /Tracking focus
20 Battery eject lever
21 Battery insertion slot
22 Battery/Memory card cover
23 Multi connector
24 Access lamp
25 Memory card slot
26 Tripod receptacle
27 (TransferJet™) mark (85, 116)

* Using the wrist strap

Attach the strap and place your hand through the loop to prevent the camera from being dropped.



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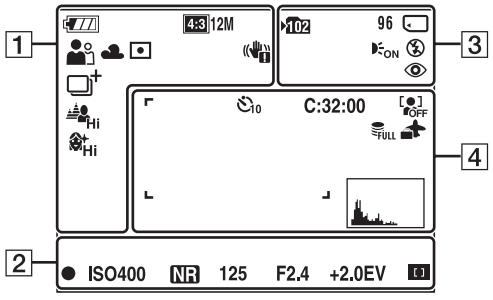
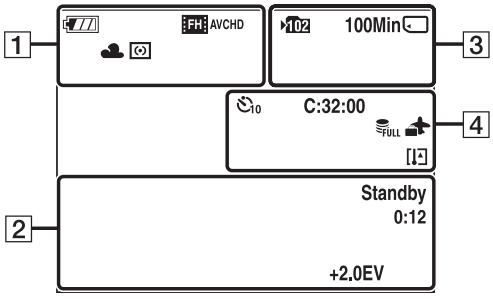
List of icons displayed on the screen

Icons are displayed on the screen to indicate the camera status.
You can change the screen display using DISP (Screen Display Settings) on the control button.

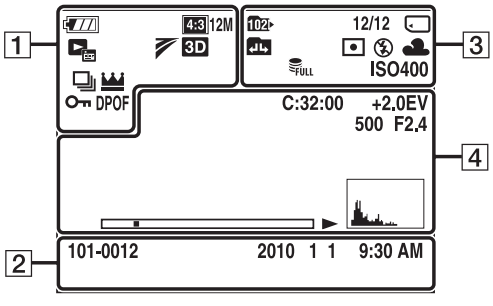
When shooting still images



When shooting movies



When playing back



1

Display	Indication
	Battery remaining
	Low battery warning
4:3 12M 4:3 8M 4:3 5M 4:3 VGA 16:9 9M 16:9 2M STD WIDE FH AVCHD HQ AVCHD 1080 MP4 720 MP4 VGA MP4	Image Size/Panorama image size/Quality
	Scene Selection
P SCN 3D 3D	Shooting mode (Intelligent Auto Adjustment/Superior Auto Adjustment/Background Defocus/Program Auto/Scene Selection/iSweep Panorama/3D Sweep Panorama/Sweep Multi Angle/Movie Mode)
	Scene Recognition icon
WB	White Balance
	Metering Mode
3D	3D images
	Vibration warning
	Anti Blink
SCN	Scene Recognition
	Overlay icon for Superior Auto Adjustment
Hi Lo	Defocus Effect
Hi Mid Lo	Soft Skin Effect
Hi Mid Lo	Burst Shooting Interval
	Burst Images
	Main image in the burst group

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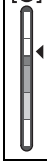
Continued ↓

Display	Indication
[☺] 	Smile Detection Sensitivity indicator
W T ×1.4 S PQ	Zoom scaling
	Protect
DPOF	Print order (DPOF)
×2.0	Playback zoom
MP4 AVCHD	View mode
	TransferJet settings

2

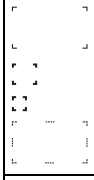
Display	Indication
●	AE/AF lock
ISO400	ISO number
NR	NR slow shutter
125	Shutter speed
F2.4	Aperture value
+2.0EV	Exposure value
	Focus
REC Standby	Recording a movie/Standby
0:12	Recording time (m:s)
101-0012	Folder-file number
2010 1 1 9:30 AM	Recorded date/time of the playback image

3

Display	Indication
102	Recording folder
102	Playback folder
96	Number of recordable images
12/12	Image number/Number of images recorded in date range, selected folder
100Min	Recordable time
	Recording/Playback Media (Memory card, internal memory)
OFF	Eye-Fi Mode display
	Changing folder
ON	AF Illuminator

Display	Indication
	Red-eye reduction
	Metering Mode
SL	Flash mode
	Flash charging
AWB WB	White Balance
ISO400	ISO number
FULL ERROR	Database file full/Database file error warning

4

Display	Indication
	Self-timer
C:32:00	Self-diagnosis display
	Overheating warning
OFF	Face Detection
FULL ERROR	Database file full/Database file error warning
	Destination
	AF range finder frame
+	Spot metering cross-hairs
+2.0EV	Exposure value
500	Shutter speed
F2.4	Aperture value
	Playback
	Playback bar
00:00:12	Counter
	Histogram • ⊗ appears when histogram display is disabled.
	Volume

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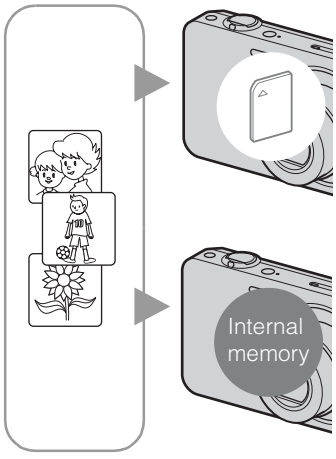
Using the internal memory

The camera has approximately 32 MB of internal memory. This memory is not removable. Even when there is no memory card inserted in the camera, you can record images using this internal memory.



When a memory card is inserted

[Recording]: Images are recorded on the memory card.
[Playback]: Images on the memory card are played back.
[Menu, Settings, etc.]: Various functions can be performed on images on the memory card.

When there is no memory card inserted

[Recording]: Images are recorded using the internal memory.

- You cannot record movies to the internal memory with the following movie quality or movie image size:
  - [AVC HD 17M FH], [AVC HD 9M HQ]
  - [MP4 12M], [MP4 6M]

[Playback]: Images stored in the internal memory are played back.
[Menu, Settings, etc.]: Various functions can be performed on images in the internal memory.

On image data stored in the internal memory

We recommend that you copy (back up) data using one of the following methods.

To copy (back up) data on a hard disk of your computer

Perform the procedure on page 136 without a memory card inserted in the camera.

To copy (back up) data on a memory card

Prepare a memory card with sufficient free capacity, then perform the procedure explained in [Copy] (page 123).

Notes

- You cannot import image data on a memory card to the internal memory.
- By making a USB connection between the camera and a computer with a cable, you can import data stored in the internal memory to a computer. However you cannot export data on a computer to the internal memory.

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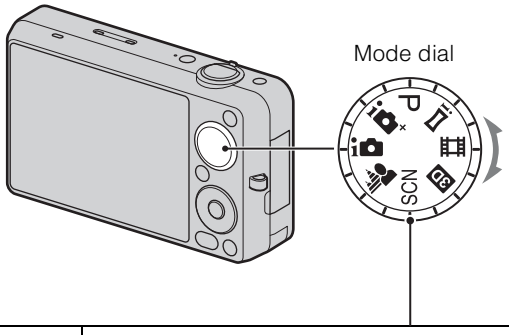
Using the mode dial

Set the mode dial to the desired function.



(Intelligent Auto Adjustment)	Allows you to shoot still images with the setting adjusted automatically.
(Superior Auto Adjustment)	Allows you to shoot still images in higher quality than with Intelligent Auto Adjustment mode.
(Background Defocus)	Allows you to shoot an image with background defocus and define the subject.
P **(Program Auto)**	Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). Also you can select various settings using the menu.
SCN **(Scene Selection)**	Allows you to shoot with preset settings according to the scene.
(iSweep Panorama)	Allows you to shoot a panoramic image after composing images.
3D **(3D Shooting)**	Allows you to shoot 3D images by composing images.
(Movie Mode)	Allows you to record movies.

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Intelligent Auto Adjustment

Allows you to shoot still images with the setting adjusted automatically.

1 Set the mode dial to iA (Intelligent Auto Adjustment).

2 Shoot with the shutter button.

Note

- Flash mode is set to [Auto] or [Off].

On Scene Recognition

Scene Recognition operates in Intelligent Auto Adjustment mode. This function lets the camera automatically recognize the shooting conditions and shoot the image.

Scene Recognition icon and guide

- The camera recognizes (Twilight), (Twilight Portrait), (Twilight using a tripod), (Backlight), (Backlight Portrait), (Landscape), (Macro) or (Portrait), and displays the corresponding icon and guide on the screen when the scene is recognized.
  For details, see page 74.

If you shoot a still image of a subject that is difficult to focus on

- The shortest shooting distance is approximately 5 cm (2 inches) (W), 90 cm (2 ft 11 3/8 inches) (T) (from the lens).
- When the camera cannot focus on the subject automatically, the AE/AF lock indicator changes to flash slowly and the beep does not sound. Either recompose the shot or change the focus setting (page 71).
- Focusing may be difficult in the following situations:
  - It is dark and the subject is distant.
  - The contrast between the subject and the background is poor.
  - The subject is seen through glass.
  - The subject is moving quickly.
  - There is reflective light or shiny surfaces.
  - The subject is backlit or there is a flashing light.

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Superior Auto Adjustment

The camera combines Scene Recognition and high-quality image technology to automatically shoot the images with the optimal settings.

1 Set the mode dial to iA+ (Superior Auto Adjustment).

2 Press the shutter button.

The camera shoots burst images when needed and overlays the multiple images. By overlaying the images, the camera records an image with less subject blur and noises.

Notes

- [Flash] is fixed to [Auto] or [Off]. In low light conditions such as night scenes, set [Flash] to [Off] to achieve the optimal effect of the overlaid images.
- The effect of reduced subject blur and noises is less effective in the following situations:
  - Subjects are moving
  - Subjects are too close to the camera
  - Images with little contrast, such as sky, sandy beach or lawn
  - Images with constant changes, such as waves or waterfalls

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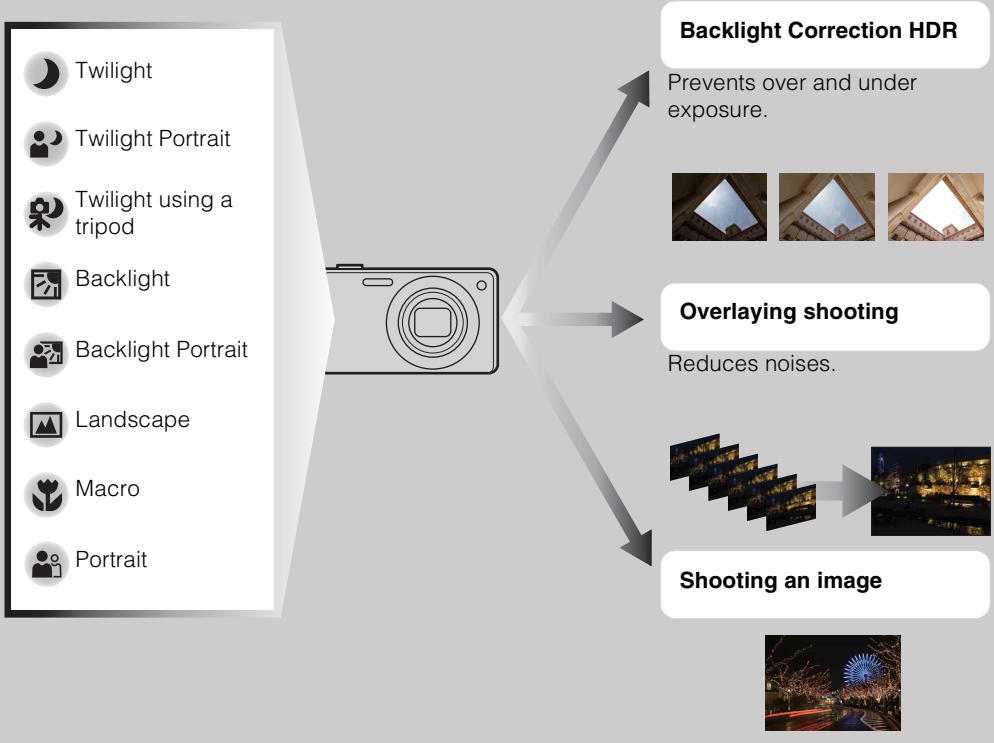
Continued ↓

What is the difference between Superior Auto Adjustment mode and Intelligent Auto Adjustment mode?

In [Superior Auto Adjustment] mode, the camera shoots burst images based on the recognized scene.
After shooting, the camera creates a composite of the burst images to produce a higher-quality image. However, it may take longer to record images than in Intelligent Auto Adjustment mode.



The camera selects the optimal overlay mode based on the recognized scene.

- In Backlight Correction HDR or overlaying shooting mode, (the overlay icon) appears on the LCD screen.

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Background Defocus

The camera focuses only on the subject, leaving the background out of focus, so that the subject stands out.

1 Set the mode dial to (Background Defocus).

2 Press the shutter button.

Notes

- When shooting, hold the camera still to reduce camera shake.
- The background may not be defocused in the following situations:
  - The scene is too bright or too dark.
  - The subject is moving.
  - The subject is too far from the camera. (The recommended shooting distance has been exceeded.)
  - The subject is too close to the background.
- The Background Defocus effect may not work effectively in the following situations:
  - The subjects are too small.
  - The subject is the same color as the background.
  - You moved the camera after setting the AE/AF lock.
- If you are unable to defocus effectively, try the following steps:
  - Turn the W/T (zoom) lever to the T side.
  - Approach the subject until you are within the recommended shooting distance.
  - Separate the subject and the background.
  - Shoot after focusing on the subject.

Tips for defocusing the background

- Shoot from the recommended shooting distance indicated on the LCD screen.
- Before shooting, select MENU → [Defocus Effect] → [High], [Mid] or [Low] to change the intensity of the background defocus effect.

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Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). Also you can select various settings using the menu.

1 Set the mode dial to P (Program Auto).

2 Press the shutter button.

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Scene Selection

Allows you to shoot with preset settings according to the scene.

1 Set the mode dial to SCN (Scene Selection).

2 Select the desired mode → ● on the control button.
If you want to switch to another scene, press the MENU button.

(Soft Skin)	Allows you to shoot faces for smoothness.	
(Soft Snap)	Allows you to shoot images with a softer atmosphere for portraits and flowers, etc.	
(Anti Motion Blur)	Allows you to shoot indoor shots without using the flash to reduce subject blur.	
(Landscape)	Allows easy shooting of distant scenes by focusing in the distance. Shoots the clear sky and trees and flowers in vivid colors.	
(Backlight Correction HDR)	Allows you to shoot two images having different exposures to create a single image with a greater range of gradation. The camera combines the dark parts of an image taken with a bright exposure setting and the bright parts of an image taken with a dark exposure setting.	
(Twilight Portrait)	Allows you to shoot sharp images of people with the night view in the background without compromising the atmosphere.	
(Twilight)	Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.	
(Hand-held Twilight)	Allows you to shoot night scenes with less noise without using a tripod.	

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Continued ↓

(High Sensitivity)	Allows you to shoot images without a flash under low light conditions, reducing blur.
(Gourmet)	Allows you to shoot food arrangements in delicious and bright colors using Macro mode.
(Pet)	Allows you to shoot images of your pet with the best settings.
(Beach)	Allows you to shoot images with the proper settings for seaside or lakeside scenes.
(Snow)	Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.
(Fireworks)	Allows you to record fireworks in all their splendor.

Note

- When you shoot images using (Twilight Portrait), (Twilight) or (Fireworks) mode, the shutter speed is slower and the images tend to blur. To prevent blurring, the use of a tripod is recommended.

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Functions you can use in Scene Selection

For shooting an image appropriately according to the scene condition, a combination of functions is determined by the camera. ✓ indicates settings that can be changed, while – indicates settings that cannot be changed.
For “Flash” and “Self-Timer,” the icons indicate modes that are available. Some functions are not available, depending on the Scene Selection mode.

Flash	✓	✓	⊗	⚡ ⊗	⚡ ⊗	⚡SL	⊗	⊗	⊗	⚡ ⊗	⚡ ⊗	⚡ ⊗	⚡ ⊗	⊗
Self-Timer	✓	✓	✓	⏲10 ⏲2	✓	✓	⏲10 ⏲2	✓	✓	⏲10 ⏲2	⏲10 ⏲2	✓	✓	⏲10 ⏲2
Smile Shutter	✓	✓	—	—	—	✓	—	—	✓	—	—	✓	✓	—
Burst Settings	✓	✓	—	✓	—	—	—	—	—	—	—	✓	✓	—
EV	✓	✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓	✓	✓
White Balance	—	—	✓*1	—	✓	—	—	✓*1	✓*1	✓	✓	—	—	—
Focus	—	—	—	—	✓	—	—	—	—	—	—	—	—	—
Metering Mode	—	—	✓	—	—	—	—	✓	—	—	—	—	—	—
Soft Skin Effect	✓*2	✓	✓	—	—	✓	—	—	—	—	—	—	—	—
Face Detection	✓*3	✓*3	✓	—	✓	✓	—	✓	✓	—	—	✓	✓	—
Anti Blink	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—

*1 [Flash] for [White Balance] cannot be selected.
*2 [Off] for [Soft Skin Effect] is not available.
*3 [Off] for [Face Detection] cannot be selected.

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Intelligent Sweep Panorama

Allows you to create a panoramic image from composite images. The camera also automatically detects people's faces or moving subjects.

1 Set the mode dial to (iSweep Panorama).

2 Align the camera with the end of the subject to be shot and press the shutter button.

3 Pan the camera to the end of the guide, following the indication on the LCD screen.

Notes

- If you cannot pan the camera across the entire subject within the given time, a gray area occurs in the composite image. If this happens, move the camera faster to record a full panoramic image.
- Since several images are stitched together, the stitched part will not be recorded smoothly.
- Under low light conditions, panoramic images may be blurred or the shooting may not be successful.
- Under lights that flicker, such as fluorescent lights, the brightness or color of the combined image will not always be the same.
- When the whole angle of panoramic shooting and the AE/AF locked angle are very different in brightness, color and focus, the shooting will not be successful. If this happens, change AE/AF locked angle and shoot again.
- Intelligent Sweep Panorama is not suitable for the following situations:
  - Subjects are too close to the camera
  - Images with little contrast, such as sky, sandy beach or lawn
  - Images with constant changes, such as waves or waterfalls
- You cannot create panoramic images in the following situations:
  - You pan the camera too quickly or too slowly.
  - There is too much camera shake.

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Continued ↓

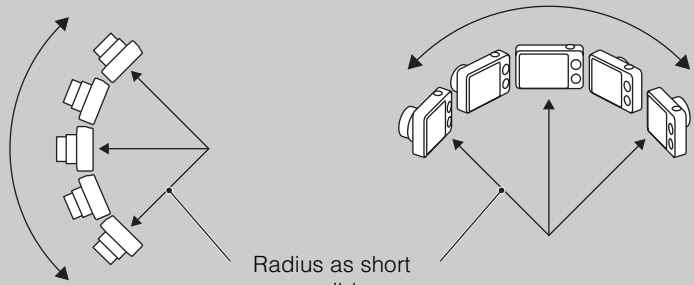
Changing the shooting direction or image size of a panoramic image

Shooting Direction: MENU → [Shooting Direction] → select [Right], [Left], [Up] and [Down] → ●

Panorama Image Size: MENU → [Panorama Image Size] → select [Standard] or [Wide] → ●

Tips for shooting a panoramic image

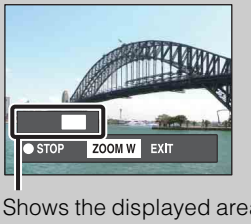
Pan the camera in an arc at a constant velocity in the direction indicated on the LCD screen. Subjects at rest are more suited for panorama shots than moving subjects.



- First, press the shutter button halfway so that you can lock the focus, exposure and white balance. Then, press the shutter button fully down and pan or tilt the camera.
- If a section with greatly varied shapes or scenery is concentrated along a screen edge, the image composition may fail. In such case, adjust the frame composition so that the section is in the center of the image, then shoot again.

Scrolling the panoramic images for display

You can scroll panoramic images by pressing ● on the control button while panoramic images are being displayed. Turn the W (zoom) lever to display the whole image again.



Shows the displayed area of the whole panoramic image

Control button/lever	Action
● on the control button	Scrolling playback/pauses scrolling images
▲/▼/◀/▶ on the control button	Scrolls images
W (zoom) lever	Displays the whole image

- Panoramic images can also be played back using the supplied software “PMB” (page 134).
- Panoramic images recorded using another camera may not scroll correctly when played.

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Movie Mode

Allows you to record movies.

1 Set the mode dial to (Movie Mode).
2 Press the shutter button.
3 To stop recording, press the shutter button again.

Changing the Movie Format, Image Quality or Image Size

Movie format: MENU → (Settings) → (Shooting Settings) → [Movie format] → [AVCHD] or [MP4] → ● on the control button

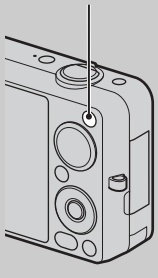
Quality (AVCHD): MENU → (Quality) → [AVC HD 17M FH] or [AVC HD 9M HQ]

Image Size (MP4): MENU → (Image Size) → [MP4 12M], [MP4 6M] or [MP4 3M]

To shoot a movie quickly

In other than Easy Mode, you can start movie recording simply by pressing the MOVIE (Movie) button.

MOVIE (Movie) button



To end movie recording, press the MOVIE (Movie) button again.
The menu and setting items used for recording are those enabled when you set the mode dial to (Movie Mode).

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Zoom

You can enlarge the image when shooting. The camera's optical zoom function can enlarge images up to 5×.

1 Turn the W/T (zoom) lever.

Turn the W/T (zoom) lever to (T) to zoom in, and to (W) to zoom out.

- When the zoom scale exceeds 5×, see page 98.

T side

W side

Notes

- Zoom is locked to the W side in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
- The operating sound of the lens is recorded when the zoom function operates while shooting a movie.

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Tracking focus

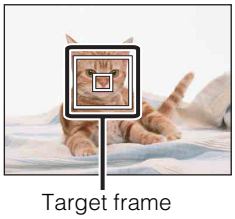
The camera tracks the subject and adjusts focus automatically until you press the shutter button halfway down, even if the subject is moving.

1 Press ● on the control button.
The target frame appears.

2 Place the target frame over the subject you want to focus on, and press ●.
Tracking begins.

3 Press the shutter button half way down.
The position of the subject, focus and exposure are locked.

4 Press the shutter button fully down to shoot the image.


Target frame

5 To stop the tracking focus function before shooting, press ● again.

Notes

- Tracking focus is not available in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
  - In Movie Mode
  - In Easy Mode
  - When the Smile Shutter function is activated
  - When (Landscape), (Twilight) or (Fireworks) is selected in Scene Selection
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People]
  - When you use [Digital Zoom]
- Tracking focus may fail to lock the focus, lose the subject or track different subject in the following situations:
  - The subject moves too quickly.
  - The subject is too small or too large.
  - The subject is the same color as the background.
  - Under low light conditions.
  - Under conditions where the brightness varies.
- Tracking focus will automatically be canceled when the subject disappears from the screen or has failed to be tracked.

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DISP (Screen Display Settings)

1 Press DISP (Screen Display Settings) on the control button.

2 Select the desired mode with the control button.

	(Image Only)	In Movie Mode, sets screen to standard brightness and displays only images.	
	(Bright + Image Only)	Sets screen brighter and displays only images.	
	(Bright + Exposure Data)	Sets screen brighter and displays the information. Exif data and a histogram for the recorded image are also displayed.	
	(Bright)	Sets screen brighter and displays the information.	
✓	**(Normal)**	Sets screen to standard brightness and displays the information.	

Note

- If you view images in bright outside light, adjust the screen brightness up. However, the battery power may decrease faster under such condition.

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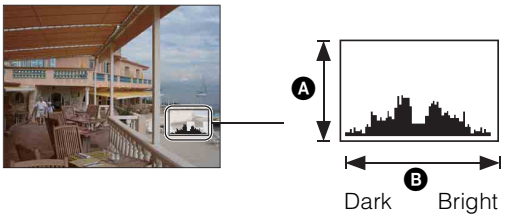
Histogram

A histogram is a graph showing the brightness of an image. The graph display indicates a bright image when skewed to the right side, and a dark image when skewed to the left side.



A Number of pixels
B Brightness

1 Press DISP (Screen Display Settings) on the control button, then select [Bright + Exposure Data].

Notes

- The histogram also appears when playing back a single image, but you cannot adjust the exposure.
- The histogram does not appear when:
  - Recording 3D images
  - Playing back 3D images shot in other than [16:9] image size
  - Recording movies
  - Playing back movies
  - Viewing vertical orientation images
  - Rotating still images
  - Shooting with iSweep Panorama
  - Viewing images shot with iSweep Panorama
  - When [Display Burst Group] is set to [Display Main Image Only]
- A large difference in the histogram displayed during shooting and playback may occur when:
  - The flash strobes.
  - The shutter speed is slow or fast.
- The histogram may not appear for images recorded using other cameras.

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Flash

1 Press ⚡ (Flash) on the control button.

2 Select the desired mode with the control button.

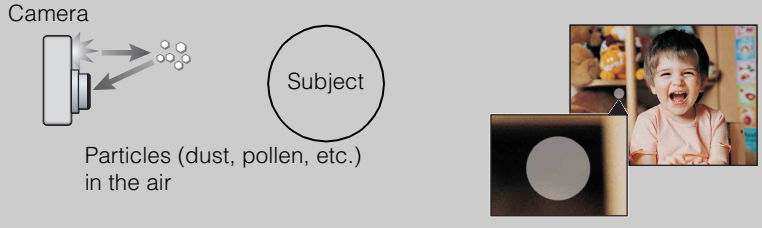
✓	⚡AUTO **(Auto)**	Flash automatically operates when shooting in low light or backlit conditions.
	⚡ **(On)**	Flash always operates.
	⚡SL **(Slow Synchro)**	Flash always operates. The shutter speed is slow in a dark place to clearly shoot the background that is out of flash light.
	⚡ **(Off)**	Flash does not operate.

Notes

- The flash strobes twice. The first flash adjusts the light quantity.
- While charging the flash, ⚡ is displayed.
- You cannot use the flash during burst shooting.
- [On] or [Slow Synchro] is not available when the camera is in Intelligent Auto Adjustment mode or in Superior Auto Adjustment mode.
- [Flash] is set to [Off] in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
  - In Background Defocus mode
- When shooting with the flash and the zoom is set to W, the shadow of the lens may appear at the bottom left of the screen, depending on the shooting conditions. If this happens, set the zoom to T and shoot with the flash again.

When the “White circular spots” appears in flash photos

This is caused by particles (dust, pollen, etc.) floating close to the lens. When they are accentuated by the camera’s flash, they appear as white circular spots.



How can the “White circular spots” be reduced?

- Light the room and shoot the subject without a flash.
- Select (Anti Motion Blur) or ISO (High Sensitivity) mode in Scene Selection. ([Flash] is set to [Off].)

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Smile Shutter

When the camera detects a smile, the shutter is released automatically.

1 Press ☺ (Smile) on the control button.

2 Wait for a smile to be detected.

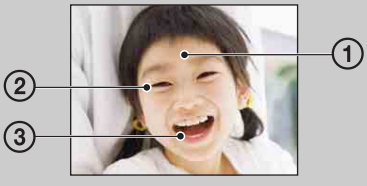
When the smile level exceeds the ◀ point on the indicator, the camera records images automatically.
If you press the shutter button during Smile Shutter, the camera shoots the image, and then returns to Smile Shutter mode.

3 To stop shooting, press ☺ (Smile) again.

Notes

- Shooting using the Smile Shutter ends automatically when either the memory card or internal memory becomes full.
- Smiles may not be detected correctly depending on the conditions.
- You cannot use the digital zoom function.
- The Smile Shutter function is not available in the following situations:
  - In Intelligent Sweep Panorama mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In 3D shooting mode
  - In Movie Mode

Hints for better capturing of smiles



① Do not cover the eyes with the bangs.
Do not obscure the face by hat, masks, sunglasses, etc.
② Try to orient the face in front of the camera and be as level as possible. Keep the eyes narrowed.
③ Give a clear smile with an open mouth. The smile is easier to detect when the teeth are shown.

- The shutter operates when any person whose face is being detected smiles.
- You can select or register the priority subject for face detection with [Face Detection]. When the selected face is registered in the camera memory, Smile Detection is performed only for that face (page 78).
- If the camera cannot detect a smile, set the Smile Detection Sensitivity to [Slight Smile].

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Self-Timer

1 Press (Self-Timer) on the control button.

2 Select the desired mode with the control button.

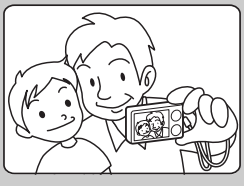
✓	**(Off)**	Does not use the self-timer.
	(10sec)	Sets the self-timer to a 10-second delay. When you press the shutter button, the self-timer lamp flashes and a beep sounds until the shutter operates. To cancel, press again.
	(2sec)	Sets the self-timer to a 2-second delay.
	(Self-portrait One Person)	Sets the self-timer to Self-portrait timer. When the camera detects the specified number of faces, a beep sounds, and the shutter operates 2 seconds later.
	(Self-portrait Two People)	

Notes

- In Movie Mode, [Self-portrait One Person] or [Self-portrait Two People] is not available.
- The self-timer is not available in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode

Automatic shooting with Self-portrait timer

Point the lens at yourself so your face is reflected in the LCD screen. The camera detects the subjects, and then the shutter operates. The camera determines the optimal composition and prevents faces from being cut out of the LCD screen. Do not move your camera after the beep sounds.



- You can also shoot an image by pressing the shutter button during this operation.

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Continued ↓

Hints for preventing blur

If your hands or body moves while holding the camera and pressing the shutter button, “Camera shake” occurs. Camera shake occurs frequently under low-light or slow shutter speed conditions, such as those encountered in (Twilight Portrait) or (Twilight) mode. In such a case, shoot with the below tips in mind.

- Shoot with a 2-second delay self-timer and stabilize the camera by holding your arms firmly at your side after pressing the shutter button.
- Use a tripod or place the camera on a flat surface to hold the camera steady.

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Burst button

You can select Single (single-image) or Burst as the shooting mode.
You can also select Single (single-image) or Burst in [Burst Settings] (page 65).

1 Select a desired mode with the (Burst) button.

When you press the (Burst) button, the setting switches.

Single	The camera shoots a single image.
Burst	The camera shoots up to 10 continuous frames in one burst when you hold down the shutter button. You can set the burst shooting speed in [Burst Shooting Interval] (page 66).

Note

- The Burst button is not available in the following situations:
  - In iSweep Panorama mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In 3D shooting mode
  - In Movie Mode
  - When the Smile Shutter function is activated

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MOVIE (Movie) button

You can quickly start shooting movies from all REC modes.

1 Press the MOVIE (Movie) button.

2 To stop recording, press the MOVIE (Movie) button again.

Note

- MOVIE (Movie) button is not available in the following situations:
  - When the Smile Shutter function is activated
  - In Easy Mode
  - When using [Self-Timer]

Changing the Movie Format, Image Quality or Image Size

Movie format: MENU → (Settings) → (Shooting Settings) → [Movie format] → [AVCHD] or [MP4] → ● on the control button

Quality (AVCHD): MENU → (Quality) → [AVC HD 17M FH] or [AVC HD 9M HQ]

Image Size (MP4): MENU → (Image Size) → [MP4 12M], [MP4 6M] or [MP4 3M]

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Viewing still images

1 Press the ▶ (Playback) button to switch to playback mode.

2 Select an image with the control button.

Viewing images taken with a different camera

This camera creates an Image Database File on the memory card for recording and playing images. If the camera detects images not registered in the Image Database File on the memory card, a registration screen with the message “Files found which were not recognized Import files” will be displayed. To view unregistered images, register them by selecting [OK].

- Use a sufficiently charged battery to register images. If a battery with a low charge is used to register images, it may not be possible to register all of the data or the data may be corrupted if the battery charge runs out.

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Playback zoom

Plays back the enlarged image.

1 Turn the Q (Playback zoom) lever to (T) during still image playback.
The image is enlarged to twice the previous size, at the center of the image.

2 Adjust the position with the control button.

3 Change the zoom scale with the Q (Playback zoom) lever.
Turn the Q lever to (T) to zoom in, to (W) to zoom out.
Press ● to cancel playback zoom.

Shows the displayed area of the whole image

To save enlarged images

You can save an enlarged image by using the trimming function.
Press MENU → [Retouch] → [Trimming (Resize)].

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Image Index

Displays multiple images at the same time.

1 Press the ▶ (Playback) button to switch to playback mode.

2 Turn the ▦ (Index) lever to (W) to display the image index screen.
Turn the lever again to display an index screen with more images. Turn the lever yet again to view images with the Calendar while playing back in [Date View].

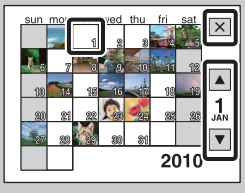
3 To return to the single-image screen, select an image with the control button, then press ●.

Displaying images of the desired date/folder

Select the left side bar with the control button, then select the desired date/folder with ▲/▼.

Viewing images with the Calendar

When [View Mode] is set to [Date View], turn the ▦ (Index) lever to view images with the Calendar, while the index displays more images.



- To select the month you want to display, select ▲/▼ with the control button, then the desired month.
- To view images in selected date in index mode, select the date with the control button and press ●.
- To exit the Calendar, select ✕ with the control button, then press ●.

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Delete

Allows you to select unwanted images for deletion. You can also delete images from the MENU button (page 90).

1 Press the ▶ (Playback) button to switch to playback mode.

2 🗑 (Delete) button → desired mode → ● on the control button

All Images on This Date **All in This Folder** **All AVCHD files**	Deletes all images in the selected date range or folder, or all AVCHD movies at once. Press [OK] → ● after step 2.
Multiple Images	Allows you to select and delete multiple images. Do as the following after step 2. ①Select an image then press ●. Repeat the above step until there are no more images to be deleted. Select an image with a ✓ mark again to release the ✓ mark. ②MENU → [OK] → ●
This Image	Deletes the currently displayed image in single-image mode.
All Imgs in This Burst Group	Deletes all images in the selected burst group at once. Press [OK] → ● after step 2.
All but This Image	Deletes burst group images other than the selected image in Display Burst Group mode. Press [OK] → ● after step 2.
Cancel	Cancels the deletion.

Notes

- In Easy Mode, you can select from [1 image] or [All] to delete images.
- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.

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Continued ↓

You can switch between index and single-image mode when selecting images

Turn the Q lever to (T) of the W/T (zoom) lever in index mode to return to single-image mode, and turn the ▦ (Index) lever to (W) in single-image mode to return to index mode.

- You can also switch between index and single-image modes in [Protect], [Send by TransferJet] or [DPOF].

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Viewing burst images

Plays back burst images.

1 Press the ▶ (Playback) button to switch to playback mode.

2 Select burst images using ◀/▶ on the control button.

3 Press the desired button according to the playback mode.

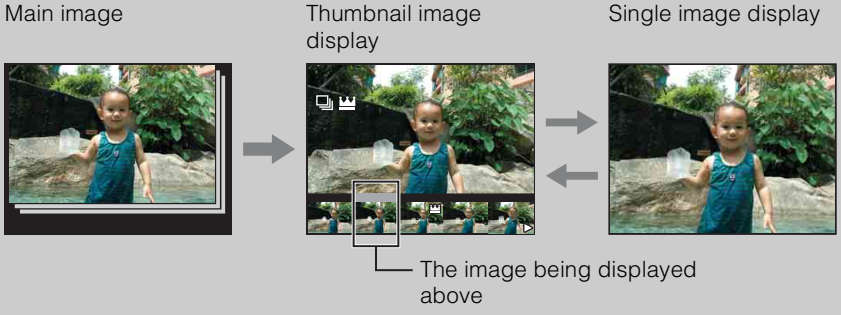
Operation method	Action
Press ▼ on the control button.	Displays the burst images in index mode. The display switches between single image display and thumbnail image display each time you press ● on the control button.
Press ● on the control button.	You can view the burst images as a movie by tilting the camera to the right or left.

Note

- You can view the burst images as a movie only when you set [View Mode] to [Date View] and [Display Burst Group] to [Display Main Image Only].

Displaying grouped burst images side by side

Only the main image is displayed if [Display Main Image Only] has been set. You can display images in the index by following the procedure below.



① Display the main image in playback mode, then press ▼ on the control button.
The images are displayed in the index.
② Press ◀/▶ to display each image in a burst group.
③ The display switches between single image display and thumbnail image display each time you press ●.
④ To cancel the display, press ▼.

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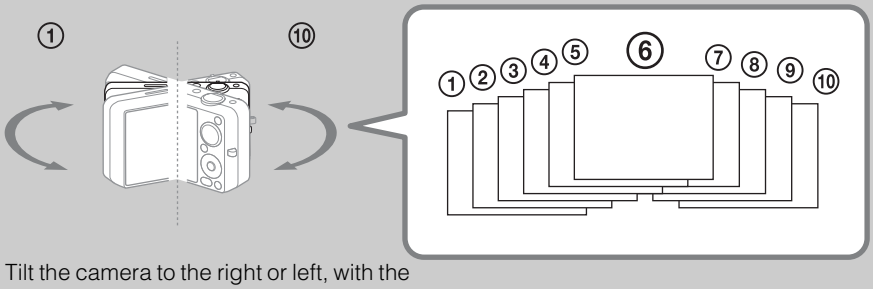
Continued ↓

Viewing the burst images as a movie by tilting the camera to the right or left

To view the burst images smoothly as a movie, press ● on the control button, then tilt the camera to the right or left, as illustrated.



Tilt the camera to the right or left, with the center of the camera as the axis.

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Viewing movies

1 Press the ▶ (Playback) button to switch to playback mode.

2 Select a movie with the control button.

3 Press ●.

Movie playback starts.

Control button	Action
●	Stop
▶	Fast forward
◀	Fast rewind
▼	Displays the control panel

Note

- You may not be able to play back some images shot using other cameras.

To display only movies on the index screen

You can view only movie thumbnails on the index screen by pressing MENU → (View Mode) → MP4 (Folder view (MP4)) or AVCHD (AVCHD view).

MP4 (Folder view (MP4))	Displays MP4-format movie thumbnails on the index screen.
AVCHD (AVCHD view)	Displays AVCHD-format movie thumbnails on the index screen.

- When a movie file is played back to the end, the camera automatically starts playing back the next movie file.

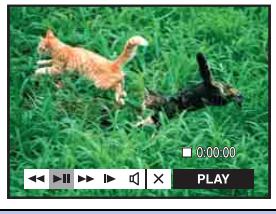
Displaying the control panel

Display the control panel, you can control slow movie playback and adjust the volume.

1 Press ▼ on the control button.

The control panel appears.

2 Select a desired button with ◀/▶, and press ●.



Button	Action
◂◂	Fast rewind
▸∎	Playback/Stop
▸▸	Fast forward
▮▸	Slow playback
🔊	Volume control
×	Close the control panel

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Continued ↓

On the movie viewing screen

Select the image you want to display using ◀/▶ on the control button, and press ●.
The Playback bar appears, you can check a playback position of a movie.

FH AVCHD, HQ AVCHD, 1080 MP4, 720 MP4 or VGA MP4 appears on the movie viewing screen.
The icon displayed may vary depending on image size and quality.

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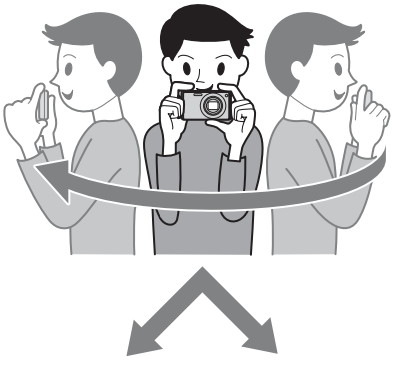
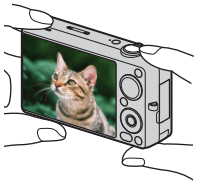
3D Functions

This camera is compatible with 3D functions. The 3D functions installed on this camera are [3D Sweep Panorama] and [Sweep Multi Angle]. 3D images shot in [3D Sweep Panorama] mode can be played back only on a 3D TV, while the images shot in [Sweep Multi Angle] mode can be played back both on this camera and on a 3D TV.
This section describes the difference between [3D Sweep Panorama] mode and [Sweep Multi Angle] mode.
For more details, see the following pages:
– 3D Shooting (page 53)
– Viewing images shot in Sweep Multi Angle mode stereoscopically (page 55)
– Viewing an image on a 3D TV (page 56)

Shooting
To shoot 3D images, sweep the camera as illustrated.



	Images shot in [3D Sweep Panorama] mode	Images shot in [Sweep Multi Angle] mode
Playing back images on the camera	The recorded images are played back as normal still images. You cannot view 3D images.	 You can view stereoscopic images shot in [Sweep Multi Angle] mode by tilting the camera to the right or left. For details, see page 55.
Playing back images on a 3D TV	3D images shot in STD (Standard) and WIDE (Wide) image size can be played and scrolled on a 3D TV. For details, see page 56.	For details, see page 56.

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Continued ↓

File name of the 3D image

A 3D image consists of both JPEG and MPO files.
If you import images shot in [3D Sweep Panorama] and [Sweep Multi Angle] modes into a computer, the image data is stored on the computer as follows.

	File name on the computer	Usage
3D Sweep Panorama	DSC0△△△△.JPG DSC0△△△△.MPO	For playing back the 3D images on a 3D TV
Sweep Multi Angle	DSC0○○○○.JPG DSC0○○○○.MPO	For playing back the 3D images on a 3D TV
	DSC0□□□□.JPG DSC0□□□□.MPO	For playing back the 3D images on the camera

- If you shoot 3D images in [Sweep Multi Angle] mode, the following files are stored on the computer.
  – JPEG files and MPO files (for playing back on the camera)
  – JPEG files and MPO files (for playing back on a 3D TV)
- If you delete either the JPEG file or the MPO file comprising a 3D image, that 3D image may not be played back successfully.

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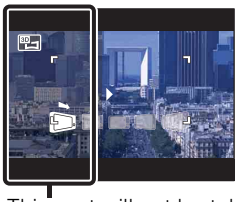
3D Shooting

Multiple images are shot while the camera is moving, and these images are compiled into a 3D image.

1 Set the mode dial to 3D (3D Shooting).

2 Select (3D Sweep Panorama) or (Sweep Multi Angle) → ● on the control button.

3 Align the camera with the end of the subject to be shot and press the shutter button.
For (3D Sweep Panorama), press MENU → (Shooting Direction) to change the shooting direction.



4 Pan the camera to the end of the guide, following the indication on the LCD screen.

(3D Sweep Panorama)	Shoots an image that can be played back on a 3D TV.
(Sweep Multi Angle)	Shoots an image that can be played back as a stereoscopic image by tilting the camera to the right or left, and an image that can be played back on a 3D TV.

Notes

- In [Sweep Multi Angle] mode, you can select only the [16:9(2M)] panoramic image size.
- 3D shooting is not suitable for the following situations:
  - When there is a large subject
  - Moving subjects
  - When the main subject is too close to the camera
  - Images with little contrast, such as the sky, a sandy beach, or lawn
- 3D images consist of a JPEG file and an MPO file. If either file is deleted on your PC, the camera may not operate correctly.
- If you cannot pan the camera across the entire subject within the given time, a gray area occurs in the composite image. If this happens, move the camera faster to record a full 3D image.
- Since several images are stitched together, the stitched part will not be recorded smoothly.
- Under low light conditions, the images may be blurred.
- Under lights that flicker, such as fluorescent lights, the 3D shot may not be successful.
- If the entire angle of view of the 3D shot and the angle of view when the AE/AF was locked are extremely different in brightness, color or focus, the shot will not be successful. If this happens, change the location of the AE/AF lock and try again.
- 3D shooting may be canceled in the following situations:
  - You pan the camera too quickly or too slowly.
  - There is too much camera shake.

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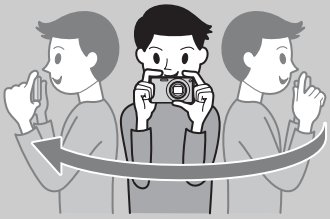
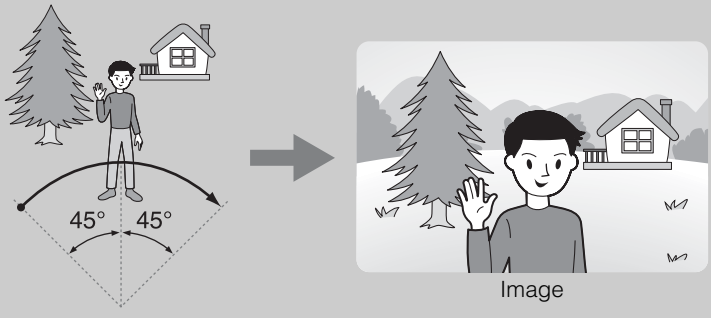
Tips for shooting a 3D image



Pan the camera in an arc at a constant velocity in the direction indicated on the LCD screen.
Subjects at rest are best suited for 3D shots.

- Determine the scene and press the shutter button halfway, so that you can lock the focus, exposure and white balance. Then, press the shutter button fully down and pan the camera.

Shootable range in Sweep Multi Angle mode



Sweep the camera approximately 45 degrees to the left and right of the subject you want to focus on.

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Viewing images shot in Sweep Multi Angle mode stereoscopically

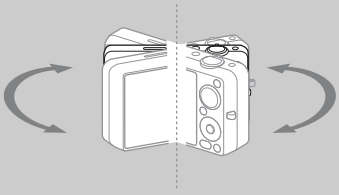
You can view the stereoscopic images shot in [Sweep Multi Angle] mode by tilting the camera to the right or left.

1 Press the ▶ (Playback) button to switch to playback mode.
2 Select an image shot in 3D (Sweep Multi Angle) mode using ◀/▶ on the control button.
3 Press ●.
4 Tilt the camera to the right or left.
5 Press ● again to end playback.

Note

- 3D images shot in [3D Sweep Panorama] mode cannot be played back in 3D on the camera.

Tilting the camera to the right or left



To view images shot in [Sweep Multi Angle] mode stereoscopically, tilt the camera to the right or left as illustrated.

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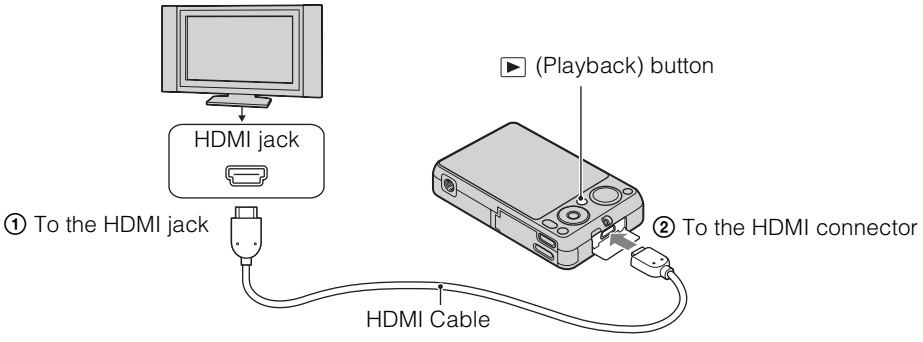
Viewing an image on a 3D TV

You can view 3D images recorded on the camera in 3D format by connecting the camera to a 3D TV using an HDMI Cable (sold separately).
Refer also to the operating instructions supplied with the TV.

1 Connect the camera to the TV using an HDMI Cable (sold separately).



2 Turn on the TV and set the input.

3 Press the ▶ (Playback) button to turn on the camera.

4 MENU → 3D (3D Viewing) → ● on the control button
Images shot with the camera appear on the TV.

5 Press ◀/▶ on the control button to select images and set the desired mode.

Control button	Action
●	Scroll Playback • Plays back scrolling images shot in 3D Sweep Panorama mode. • Press ◀/▶ to move the direction of scrolling. • When playing back a 3D image shot in [16:9] image size, [Scroll Playback] is not available.
▲	Continuous Playback • Continuously plays back only 3D images.
◀	Displays the previous image.
▶	Displays the next image.
▼	Ends 3D playback.

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Notes

- When you select (3D Viewing) mode, only 3D images are displayed.
- If you play back an image shot in [3D Sweep Panorama] mode with [Shooting Direction] set to [Up] or [Down], the image is played back horizontally on the TV.
- Press MENU → (Settings) → (Main Settings) to select [Auto] or [1080i] for [HDMI Resolution].
- The beep sound is fixed to [Shutter].
- Do not connect the camera and equipment to be connected using output terminals. When the camera and TV are connected using output terminals, no video and sound are produced. Such a connection can also cause trouble of the camera and/or connected equipment.
- This function may not work properly with some TVs. For example, you may not be able to view a video on your TV, output in 3D mode or hear sound from the TV.
- Use an HDMI Cable with the HDMI logo.
- When connecting the camera to a TV, use an HDMI Cable that can be connected to the mini jack on the camera end and to the TV jack.
- Recording may automatically stop to protect the camera after a period of time when you shoot movies in the condition where the camera and TV are connected by an HDMI Cable (sold separately).

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Easy Mode

Allows you to shoot still images using the minimum necessary functions.
The text size increases and indicators become easier to see.

1 Set the mode dial to (Intelligent Auto Adjustment).
2 MENU → EASY (Easy Mode) → ● on the control button.
3 [OK] → ●
4 Shoot with the shutter button.

Note

- The battery power may decrease faster because the screen brightness increases automatically.

Functions available in Easy Mode (Shooting)

Image Size:	MENU → [Image Size] → ● on the control button → desired mode → ● Select between [Large] or [Small] size.
Self-Timer:	on the control button → desired mode Select between [10sec] or [Off] mode.
Flash:	on the control button → desired mode Select between [Auto] or [Off] mode.
Smile Shutter:	on the control button

On Scene Recognition

Scene Recognition operates in Easy Mode. This function lets the camera automatically recognize the shooting conditions and shoot the image.

- The camera recognizes (Twilight), (Twilight Portrait), (Twilight using a tripod), (Backlight), (Backlight Portrait), (Landscape), (Macro) or (Portrait), and displays an icon on the LCD screen when the scene is recognized.
For details, see page 74.

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Viewing in Easy Mode

When you press the ▶ (Playback) button in Easy Mode, the playback screen text becomes larger and easier to see. In addition, only the deletion function becomes available.

Delete: 🗑 (Delete) button → [OK] → ● on the control button
You can delete the currently displayed image.

MENU → [Delete] → ● on the control button → desired mode → ●
Select between [1 image] or [All].
You can delete the currently displayed image with [1 image] and delete all images in the selected date range or internal memory (if selected) with [All].

- When a memory card is inserted in the camera, [View Mode] is set to [Date View].

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Shooting Direction

Set the direction in which the camera will be panned when shooting in Intelligent Sweep Panorama or 3D Sweep Panorama modes.

1 MENU → (Shooting Direction) → desired direction

✓	**(Right)**	Pan from left to right.
	(Left)	Pan from right to left.
	(Up)	Pan from down to up.
	(Down)	Pan from up to down.

Notes

- You cannot select [Up] and [Down] when you have selected [16:9] in [3D Sweep Panorama] mode.
- You can select only the right direction in [Sweep Multi Angle] mode.

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Defocus Effect

Sets the level of background defocus effect when shooting in Background Defocus mode.

1 Set the mode dial to (Background Defocus).

2 MENU → (Defocus Effect) → desired mode

	(Low)	Adds a slight Background Defocus effect.
✓	**(Mid)**	Adds an average Background Defocus effect.
	(High)	Adds a strong Background Defocus effect.

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Image Size/Panorama Image Size/ Quality

The image size determines the size of the image file that is recorded when you take an image. The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

1 MENU → (Image Size), (Panorama Image Size) or (Quality) → desired size

When shooting still images

	Image size	Usage guidelines	No. of images	Printing
✓	4:3 12M **(4000×3000)**	For prints up to A3+ size	Less	Fine
	4:3 8M **(3264×2448)**	For prints up to A3 size		
	4:3 5M **(2592×1944)**	For prints up to L/2L/A4 size		
	4:3 VGA **(640×480)**	For e-mail attachments	More	Rough
	16:9 9M **(4000×2248)**	For viewing on a high-definition TV and printing up to A4 size	Less	Fine
	16:9 2M **(1920×1080)**	For viewing on a high-definition TV	More	Rough

Note

- When you print still images recorded at a 16:9 aspect ratio or panoramic images, both sides may be cut off.

In Easy Mode

✓	**Large**	Shoots images in [12M] size.
	Small	Shoots images in [5M] size.

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When shooting in Intelligent Sweep Panorama/3D shooting modes

	16:9 2M (16:9)	Shoots at 1920 × 1080 (Horizontal). [16:9] is available only for 3D shooting.
✓	STD (Standard)	Shoots at 4912 × 1080 (Horizontal). Shoots at 3424 × 1920 (Vertical).
	WIDE (Wide)	Shoots at 7152 × 1080 (Horizontal). Shoots at 4912 × 1920 (Vertical).

When shooting movies

The larger the size of the movie image, the higher the image quality. The higher the amount of data used per second (average bit-rate), the smoother the playback image.
Select a movie recording format by pressing MENU → (Settings) → (Shooting Settings) → [Movie format] in shooting mode (page 95).

Movie recording format (AVCHD)

Movies shot with this camera are recorded in AVCHD format, at approximately 60 fields/sec (for 1080 60i-compatible devices) or 50 fields/sec (for 1080 50i-compatible devices), in interlaced mode, with Dolby Digital audio, AVCHD format.

	Movie quality	Average bit-rate	Description
	FH AVC HD 17M FH	17 Mbps	Shoots at a maximum picture quality of 1920×1080 size
✓	HQ AVC HD 9M HQ	9 Mbps	Shoots at a high picture quality of 1440×1080 size

Movie recording format (MP4)

Movies shot with this camera are recorded in MPEG-4 format, at approximately 30 frames/sec (for 1080 60i-compatible devices) or approximately 25 frames/sec (for 1080 50i-compatible devices), in progressive mode, with AAC audio, mp4 format.

	Movie image size	Average bit-rate	Description
✓	1080 MP4 12M	12 Mbps	Shoots at 1440×1080 size
	720 MP4 6M	6 Mbps	Shoots at 1280×720 size
	VGA MP4 3M	3 Mbps	Shoots at VGA size

Note

- A telephoto image is produced when [MP4 3M] image size is selected.

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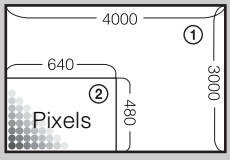
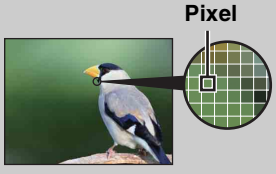
On “image quality” and “image size”

A digital image is made up of a collection of small dots called pixels.
If it contains a large number of pixels, the image becomes large, it takes up more memory, and the image is displayed in fine detail. “Image size” is shown by the number of pixels. Although you cannot see the differences on the screen of the camera, the fine detail and data processing time differ when the image is printed or displayed on a computer screen.

Description of the pixels and the image size



① Image size: 12M
4000 pixels × 3000 pixels = 12,000,000 pixels
② Image size: VGA
640 pixels × 480 pixels = 307,200 pixels



Many pixels
(Fine image quality and large file size)

Few pixels
(Rough image quality but small file size)

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Burst Settings

You can select Single (single-image) or Burst as the shooting mode.

1 MENU → (Burst Settings) → desired mode

✓	**(Single)**	The camera shoots a single image.
	(Burst)	The camera shoots up to 10 continuous frames in one burst when you hold down the shutter button.

Notes

- [Burst Settings] is not available in the following situations:
  - In Intelligent Sweep Panorama mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In 3D shooting mode
  - In Movie Mode
  - When the Smile Shutter function is activated
  - In Easy Mode
- [Flash] is set to [Off].
- When recording with the self-timer, a series of up to 10 images is recorded.
- The recording interval becomes longer, depending on the setting for the image size.
- [Focus], [White Balance], and [EV] are adjusted for the first image, and these settings are also used for the other images.
- [VGA] image size will be set while recording on internal memory.
- When the battery level is low, or when the internal memory or a memory card is full, the burst stops.
- In slow shutter speed conditions, the burst of shots per second may be decreased.

About the recording of burst shooting images

After shooting burst images, the shot images are displayed in frames on the LCD screen. When all the images are fitted in the frames, recording is completed.
You can stop the recording by pressing ● on the control button.
When stopped, the image displayed in index and images in the image processing are recorded.

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Burst Shooting Interval

Selects the number of images taken per second for Burst shooting.

1 MENU → Hi (Burst Shooting Interval) → desired mode

✓	Hi **(High)**	Shoots up to 10 images per second in succession.
	Mid **(Mid)**	Shoots up to 5 images per second in succession.
	Lo **(Low)**	Shoots up to 2 images per second in succession.

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EV

You can adjust the exposure manually in 1/3 EV steps in a range of –2.0 EV to +2.0 EV.

1 MENU → 0_{EV} (EV) → desired EV setting

Note

- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, the exposure adjustment may not be effective.

Adjusting the exposure for better looking images

Overexposure = too much light
Whitish image

Lower EV setting –

Correct exposure

Higher EV setting +

Underexposure = too little light
Darker image

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ISO

Sets the luminous sensitivity when the camera is in Program Auto mode.

1 MENU → ISO AUTO (ISO) → desired mode

✓	ISO AUTO **(Auto)**	Sets the ISO sensitivity automatically.
	ISO 125/ISO 200/ISO 400/ ISO 800/ISO 1600/ISO 3200	You can reduce image blurring in dark locations or with moving subjects by increasing the ISO sensitivity (select a larger number).

Note

- You can select only from [ISO AUTO], [ISO 125] to [ISO 800] when the shooting mode is set to burst mode.

Adjusting ISO Sensitivity (Recommended Exposure Index)

ISO sensitivity is a speed rating for recording media that incorporates an image sensor that receives light. Even when the exposure is the same, images differ depending on the ISO sensitivity.

High ISO sensitivity

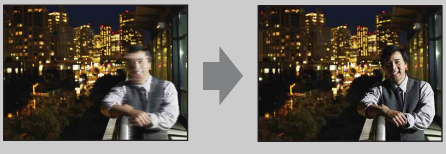
Records a bright image even in dark locations while increasing shutter speed to reduce blur.
However, the image tends to become noisy.

Low ISO sensitivity

Records a smoother image.
However, when the exposure is insufficient, the image may become darker.

Hints for preventing blur

Even though the camera is steady, the subject moves during the exposure and is captured blurred when the shutter button is pressed. Camera shake is reduced automatically, however, the function does not effectively reduce subject blur.
Subject blur occurs frequently under low-light or slow shutter speed conditions.
In such a case, shoot with the below tips in mind.



- Select a higher ISO sensitivity so that the shutter speed is faster.
- Select ISO (High Sensitivity) mode in Scene Selection.

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White Balance

Adjusts color tones according to the surrounding light conditions. Use this function if image color appears unnatural.

1 MENU → WB AUTO (White Balance) → desired mode

✓	WB AUTO **(Auto)**	Adjusts the white balance automatically so that the colors appear natural.
	☀ **(Daylight)**	Adjusts for outdoors conditions on a fine day, evening views, night scenes, neon signs, fireworks, etc.
	☁ **(Cloudy)**	Adjusts for a cloudy sky or a shady location.
	(Fluorescent White Balance 1) **(Fluorescent White Balance 2)** **(Fluorescent White Balance 3)**	[Fluorescent White Balance 1]: Adjusts for white fluorescent lighting. [Fluorescent White Balance 2]: Adjusts for natural white fluorescent lighting. [Fluorescent White Balance 3]: Adjusts for day white fluorescent lighting.
	(Incandescent)	Adjusts for places under incandescent lamp, or under bright lighting, such as in a photo studio.
	WB **(Flash)**	Adjusts for the flash conditions.
	(One Push)	Adjusts the white balance depending on the light source. The white color memorized in [One Push Set] mode becomes the basic white color. Use this mode when [Auto] and other settings don't provide accurate colors.
	SET **(One Push Set)**	Memorizes the basic white color which will be used in [One Push] mode.

Notes

- [White Balance] is not available in the following situations:
  - In Intelligent Auto Adjustment mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In Easy Mode
- [Flash] in [White Balance] is not available in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
  - In Movie Mode
  - When Scene Selection is set to (Anti Motion Blur), (Hand-held Twilight), ISO (High Sensitivity) mode
- Under fluorescent lights that flicker, the white balance function may not work correctly even though you select [Fluorescent White Balance 1], [Fluorescent White Balance 2], or [Fluorescent White Balance 3].
- When shooting with a flash in other than [Flash] mode, [White Balance] is set to [Auto].
- When [Flash] is [On] or [Slow Synchro], the white balance can only be adjusted to [Auto], [Flash], [One Push], or [One Push Set].
- [One Push Set] cannot be selected while charging the flash.

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To capture the basic white color in [One Push Set] mode

1 Frame a white object such as a piece of paper filling the screen under the same lighting conditions as you will shoot the subject.

2 MENU → WB AUTO (White Balance) → [One Push Set] → ● on the control button

The screen momentarily turns black, and when the white balance has been adjusted and stored in the memory, the recording screen is displayed again.

Notes

- If the indicator flashes while shooting, the white balance is either not set or cannot be set. Use automatic white balance.
- Do not shake or strike the camera while [One Push Set] is in progress.
- When flash mode is set to [On] or [Slow Synchro], the white balance is adjusted to the condition with the flash emitting.

Effects of lighting conditions

The apparent color of the subject is affected by the lighting conditions.
The color tones are adjusted automatically, but you can adjust color tones manually using the White Balance function.

Weather/lighting	Daylight	Cloudy	Fluorescent	Incandescent
Characteristics of light	White (standard)	Bluish	Green-tinged	Reddish

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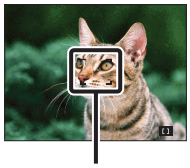
Focus

You can change the focus method. Use the menu when it is difficult to get the proper focus in auto focus mode.
AF stands for “Auto Focus,” a function that adjusts the focus automatically.

1 MENU → (Focus) → desired mode

✓	**(Multi AF)**	Focuses on a subject in all ranges of the finder frame automatically. When you press the shutter button halfway down in still image shooting mode, a green frame is displayed around the area that is in focus. • When the Face Detection function is active, AF operates with priority on faces.	 AF range finder frame
	(Center AF)	Focuses on a subject in the center of the finder frame automatically. Using the AF lock function together, you can compose the image the way you want.	 AF range finder frame
	(Spot AF)	Focuses on an extremely small subject or a narrow area automatically. Using the AF lock function together, you can compose the image the way you want. Hold the camera steady so as not to misalign the subject and the AF range finder frame.	 AF range finder frame

Notes

- When you use [Digital Zoom] or [AF Illuminator], the AF range finder frame setting is disabled and AF range finder frame is displayed as a dotted line instead. In this case, the camera works to focus on the subjects at the center of the screen.
- When the focus mode is set to other than [Multi AF], you cannot use the Face Detection function.
- [Focus] is set to [Multi AF] in the following situations:
  - In Intelligent Auto Adjustment mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In Movie Mode
  - When the Smile Shutter function is activated
  - In Easy Mode
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People]
- If Tracking focus is activated, the camera focuses with priority on the subject to be tracked.

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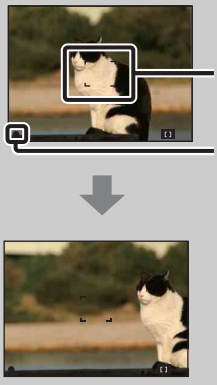
Continued ↓

Focusing on subjects near the edge of the screen

If the subject is out of focus, do as follows:



① Recompose the shot so that the subject is centered in the AF range finder, and press the shutter button halfway to focus on the subject (AF lock).

② When the AE/AF lock indicator stops flashing and remains on, return to the fully composed shot, and press the shutter button fully down.

- As long as you do not press the shutter button fully down, you can retry the procedure as many times as necessary.

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Metering Mode

Selects the metering mode that sets which part of the subject to measure to determine the exposure.

1 MENU → (Metering Mode) → desired mode

✓	**(Multi)**	Divides into multiple regions and measures each region. The camera determines a well-balanced exposure (Multi-pattern metering).
	(Center)	Measures the center of the image, and determines the exposure based on the brightness of the subject there (Center-weighted metering).
	(Spot)	Measures only a part of the subject (Spot metering). This function is useful when the subject is backlit or when there is strong contrast between the subject and the background. **Spot metering cross-hairs** Positions on the subject

Notes

- In Movie Mode, [Spot] cannot be selected.
- If you set [Metering Mode] to other than [Multi], the Face Detection function cannot be used.
- [Metering Mode] is set to [Multi] in the following situations:
  - In Intelligent Auto Adjustment mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - When the Smile Shutter function is activated
  - In Easy Mode
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People]

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Scene Recognition

The camera automatically detects shooting conditions, and then takes the shot. When a motion is detected, the ISO sensitivity is increased according to the movement to reduce subject blur (Motion Detection).

Example of an image when (Backlight) is activated.

Scene Recognition icon and guide

The camera recognizes the following types of scenes. When the camera determines the optimal scene, it displays the corresponding icon and guide.

(Twilight), (Twilight Portrait), (Twilight using a tripod), (Backlight), (Backlight Portrait), (Landscape), (Macro), (Portrait)

1 Set the mode dial to (Intelligent Auto Adjustment).

2 MENU → (Scene Recognition) → desired mode

✓	**(Auto)**	When the camera recognizes the scene, it switches to the optimal settings and shoots the image.
	(Advanced)	When the camera recognizes the scene, it switches to the optimal settings. When the camera recognizes (Twilight), (Twilight Portrait), (Twilight using a tripod), (Backlight) or (Backlight Portrait), it automatically changes the setting and shoots another image. • When you shoot two images consecutively, the + mark on the icon will turn green. • When two frames are shot, the two images are displayed side by side immediately after shooting. • When [Anti Blink] is displayed, 2 images are taken automatically and the image with the eyes open is selected automatically. For details on the Anti Blink function, see “What is the Anti Blink function?”.

Notes

- The Scene Recognition function does not operate when you shoot images using digital zoom.
- [Scene Recognition] is set to [Auto] in the following situations:
  - In Superior Auto Adjustment mode
  - In Easy Mode
  - When the Smile Shutter function is activated
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People]
  - During burst shooting
- In Tracking focus mode, (Portrait), (Twilight Portrait) or (Backlight Portrait) are not recognized.
- The available flash settings are [Auto] and [Off].
- (Twilight using a tripod) scenes sometimes cannot be recognized in an environment where vibrations are transferred to the camera even though it is fixed on a tripod.
- Sometimes a slow shutter results when a scene is recognized as a (Twilight using a tripod). Keep the camera still during shooting.
- These scenes may not be recognized depending on the situation.

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Continued ↓

Shooting two images with different settings and selecting the one you like (Advanced mode)

In [Advanced] mode, the camera shoots two images consecutively with the settings differing as follows when it recognizes (Twilight), (Twilight Portrait), (Twilight using a tripod), (Backlight) or (Backlight Portrait) scenes, which tends to blur.
You can select the desired image from the two images shot.

	First Image*	Second Image
	Shoots in Slow Synchro	Shoots with sensitivity increased and shake reduced
	Shoots in Slow Synchro with the face which the flash strobes on as guide	Shoots with sensitivity increased with the face as guide and shake reduced
	Shoots in Slow Synchro	Shoots with even slower shutter speed without increasing sensitivity
	Shoots with the flash	Shoots with the brightness and contrast of the background adjusted
	Shoots with the face which the flash strobes on as guide	Shoots with the brightness and contrast of the face and the background adjusted

* When [Flash] is set to [Auto].

What is the Anti Blink function?

When set to [Advanced], the camera automatically shoots two images consecutively* when it recognizes (Portrait). The camera will select, display, and record the image which the eyes are not blinked automatically. If the eyes are closed in both images, the message "Blinked eye detected" is displayed.

* except when the flash strobes/when the shutter speed is slow

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Soft Skin Effect

When the Face Detection function is activated, sets whether to use the Soft Skin effect, and the effect level.

1 MENU → (Soft Skin Effect) → desired mode

✓	**(Off)**	Does not use the Soft Skin Effect.
	(Low)	Adds light Soft Skin Effect.
	(Mid)	Adds moderate Soft Skin Effect.
	(High)	Adds strong Soft Skin Effect.

Notes

- [Off] is not available when Scene Selection is set to (Soft Skin) mode.
- The [Soft Skin Effect] may not be visible depending on the subject.

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Smile Detection Sensitivity

Sets the sensitivity of the Smile Shutter function for detecting smiles.

1 MENU → (Smile Detection Sensitivity) → desired mode

	(Big Smile)	Detects a big smile.
✓	**(Normal Smile)**	Detects a normal smile.
	(Slight Smile)	Detects even a slight smile.

Notes

- Smiles may not be detected correctly depending on the conditions.
- [Smile Detection Sensitivity] cannot be adjusted in the following situations:
  - In Intelligent Sweep Panorama mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In 3D shooting mode
  - In Movie Mode
  - In Easy Mode

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Face Detection

Detects the faces of your subjects and adjusts the focus, flash, exposure, white balance and red-eye reduction settings automatically.

Face Detection frame (Orange)
When the camera detects more than one subject, the camera will judge which is the main subject and set focus by priority. The Face Detection frame for the main subject will change to an orange-colored [ ]. The frame for which the focus is set will turn green when the shutter button is pressed halfway down.

Face Detection frame (White)

1 MENU → [AUTO] (Face Detection) → desired mode

	[OFF] **(Off)**	Cannot use Face Detection.
✓	[AUTO] **(Auto)**	Selects the face the camera is to automatically focus on.
	(Child Priority)	Detects and shoots with priority on child's face.
	(Adult Priority)	Detects and shoots with priority on adult's face.

Notes

- [Face Detection] is not available in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
  - In Movie Mode
  - In Easy Mode
- [Off] is not available when [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- You can select [Face Detection] only when the focus mode is set to [Multi AF] or the metering mode is set to [Multi].
- The Face Detection function does not work when using the digital zoom.
- Up to 8 faces of your subjects can be detected.
- Adults and children may not be recognized correctly depending on the conditions.
- During Smile Shutter shooting, [Face Detection] is automatically set to [Auto] even if it is set to [Off].

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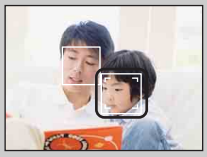
Continued ↓

Registering the priority face (Selected-face Memory)

Normally the camera automatically selects the face to focus on according to the [Face Detection] setting, but you can also select and register a face to be given priority.



① Press ● on the control button during Face Detection.
The target frame appears.

② Place the target frame over the detected face, and press ●.
The selected face is registered as the priority face, and the frame changes to an orange-colored [ ].

③ To cancel face registration, press ● again.

- When you remove the battery from the camera or leave the power turned off for a few days, the face registration is reset.
- If Tracking focus is activated, Face Registration settings are reset.
- When the registered face disappears from the LCD screen, the camera returns to the setting selected by [Face Detection]. When the registered face is shown on the LCD screen again, the camera focuses on the registered face.
- It may not be possible to detect the registered face correctly depending on the surrounding brightness, the subject's hairstyle, etc.
- When the Smile Shutter function is used with the Face Detection frame registered, Smile Detection is performed only on the registered face.
- In Easy Mode or when [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People], the priority face cannot be registered.

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Anti Blink

When Scene Selection is set to (Soft Skin) or (Soft Snap) while you are shooting an image, the camera automatically shoots two images consecutively. The camera will select, display and record the image which the eyes are not blinked automatically.

1 Set the mode dial to SCN (Scene Selection).

2 Select (Soft Skin) or (Soft Snap).

3 MENU → (Anti Blink) → desired mode

✓	**(Auto)**	When Face Detection is active, the Anti Blink function operates so that images with the subject's eyes open are recorded.
	(Off)	Does not use the Anti Blink function.

Notes

- Anti Blink does not function in the following situations:
  - When using the flash
  - During burst shooting
  - When the Face Detection function does not work
  - When the Smile Shutter function is activated
- Sometimes the Anti Blink function does not work depending on the situation.
- When the Anti Blink function is set to [Auto] but only images with the subject's eyes closed are recorded, the message "Blinked eye detected" is displayed on the LCD screen. Shoot again as necessary.

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Slideshow

Images are automatically played back in succession.

1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → (Slideshow) → desired slideshow → ● on the control button

(Continuous Playback)	Plays back all the images in succession from the displayed image to the very last image.
(Slideshow with music)	Plays back still images in succession along with effects and music.

Note

- [Slideshow] is not available when [View Mode] is set to [Folder view (MP4)] or [AVCHD view].

Continuous Playback

1 Select the desired image for playing with the control button.

2 MENU → (Slideshow) → [Continuous Playback] → ●

Control button	Action
●	Stop
▲	Sets the display settings.
▼	Displays the volume control screen. • Adjust the volume with ▲/▼ on the control button, then press ●.
◀	Rewinds image.
▶	Forwards image.

Note

- When [Display Burst Group] is [Display Main Image Only], only the main image is displayed.

Viewing panoramic images during continuous playback

The whole panoramic image is displayed for 3 seconds.
You can scroll a panoramic image by pressing ●.

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Slideshow with music

1 MENU → (Slideshow) → [Slideshow with music] → ● on the control button

Displays the setting screen.

2 Select a desired setting.

3 [Start] → ●

4 Press ● to end the slideshow.

Note

- [Slideshow with music] is not available for the following images:
  - Panoramic images
  - 3D images recorded in [Standard] or [Wide]

Image Selects the group of images to be shown. This setting is fixed to [Folder] when the internal memory is used to record images.		
✓	**All**	Plays a slideshow of all the images in order.
	This Date	Plays a slideshow of images with the currently selected date range when View Mode is [Date View].
	Folder	Plays a slideshow of images in the currently selected folder in Folder View.

Effects Selects the playback speed and mood for slideshows. If the playback time of a movie is long, an image is taken from it and displayed.		
✓	**Simple**	A simple slideshow switching images at a preset interval. The playback interval is adjustable in [Interval] and you can thoroughly enjoy your images.
	Nostalgic	A moody slideshow reproducing the atmosphere of a movie scene.
	Stylish	A stylish slideshow proceeding at a middle tempo.
	Active	A high-tempo slideshow suitable for active scenes.

Note

- When [Display Burst Group] is set to [Display Main Image Only], the burst images are displayed as follows.
  - When [Effects] is set to [Simple], only the main image is displayed.
  - When [Effects] is set to other than [Simple] and there are two or fewer burst images, only the main image is displayed.
  - When [Effects] is set to other than [Simple] and there are three or more burst images, three images including the main image are displayed.

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Music		
Specifies the music to be played during slideshows. You can select more than one background music track. Press ▼ on the control button to display the volume control screen, then press ▲/▼ to adjust the volume.		
✓	**Music1**	The default setting for a [Simple] slideshow.
	Music2	The default setting for a [Nostalgic] slideshow.
	Music3	The default setting for a [Stylish] slideshow.
	Music4	The default setting for an [Active] slideshow.
	Mute	Does not use BGM.

Note

- The movies are played back without their audio.

Interval		
Sets the screen switching interval. The setting is fixed to [Auto] when [Simple] is not selected as the [Effects].		
	1 sec	Sets the display interval of images for a [Simple] slideshow.
✓	**3 sec**	
	5 sec	
	10 sec	
	Auto	The interval is set to suit the selected [Effects] item.

Note

- The interval setting is invalid for movie playback.

Repeat		
Turns slideshow repeat on or off.		
✓	**On**	Plays back images in a continuous loop.
	Off	After all the images have been played back, the slideshow ends.

Selecting background music

You can transfer a desired music file from your CDs or MP3 files to the camera to play back during slideshow. To transfer music, install the “Music Transfer” software (supplied) to your computer. For details, see pages 134 and 135.

- You can record up to four pieces of music on the camera. (The 4 preset pieces (Music1 – Music4) can be replaced with the ones you transferred.)
- The maximum length of each music file for music playback of the camera is about 5 minutes.
- If you cannot play back a music file due to damage or other malfunctions of the file, execute [Format Music] (page 114) and transfer the music again.

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3D Viewing

Select [3D Viewing] when you want to play back images shot in 3D mode on the 3D TV. Connect the camera and the 3D TV using an HDMI Cable (sold separately) (page 56).

1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → 3D (3D Viewing) → ● on the control button

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Send by TransferJet

TransferJet is a close-up, wireless transfer technology that allows data to be transferred by closely aligning two products that you want to communicate with each other.
To find out whether your camera is equipped with the TransferJet function, check for the (TransferJet) mark on the bottom of the camera.
Using a Memory Stick with TransferJet (sold separately) allows images to be transferred between TransferJet-compatible devices.
For more details on TransferJet, see the operating instructions supplied with Memory Stick with TransferJet.

1 Insert a Memory Stick with TransferJet into the camera, and press the (Playback) button.

2 MENU → (Send by TransferJet) → desired mode → ● on the control button

3 Transfer images by closely aligning the (TransferJet) marks on the camera and other device.
A notification sound is emitted when connection is made.

(This Image)	Sends the currently displayed image in single-image mode.
(Multiple Images)	You can select and send multiple images. After step 2, perform the following. ①Select an image then press ●. Repeat the above step until there are no more images to be sent. Select an image with a ✓ mark to release the ✓ mark. ②MENU → [OK] → ●

Notes

- Only still images can be transferred.
- Up to 10 images can be transferred at once. However, for 3D images, both the MPO file and the JPEG file are transferred. Depending on the receiving device, up to 20 images are received.
- Set [TransferJet] to [On] in (Settings) (page 116).
- On an airplane, set [TransferJet] to [Off] in (Settings) (page 116). In addition, follow the rules of the place where you use.
- The connection is cut if transfer cannot be made within about 30 seconds. If this happens, select [Yes] and realign the two (TransferJet) marks on the camera and another device.
- Memory Stick with TransferJet and camera models with TransferJet are not sold in some countries and regions due to local laws and regulations.
- Set the [TransferJet] function to [Off] in countries and regions other than where you purchased your camera. Depending on the country or region, if you use the TransferJet function, you may be liable due to local restrictions on transmission of electromagnetic waves.

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Receiving images using TransferJet

1 Press the ▶ (Playback) button to switch to playback mode.

2 Closely align the (TransferJet) marks on the camera and sending device to receive images.

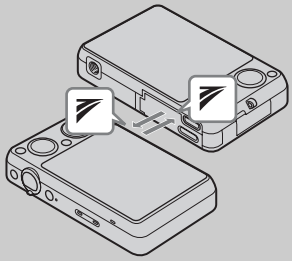
A notification sound is emitted when connection is made.

Notes

- Only images that can be played back on the camera can be sent or received.
- This camera can receive only JPEG and MPO files.
- If an Image Database File error occurs during saving, a Recover Image Database File screen will appear.
- Play images that cannot be registered in the Image Database File using [Folder view (Still)].

Tips for sending and receiving data successfully

Closely align the (TransferJet) mark on the camera and other device.



- The transfer rate and range differ depending on the angle at which the (TransferJet) marks are aligned.
- It may be necessary to alter the position/angle of the camera until communication can be obtained.
- Sending and receiving data is easier if the (TransferJet) marks are aligned with both cameras parallel to each other as shown in the figure.

Using separately sold TransferJet-compatible devices

Using separately sold TransferJet-compatible devices allows you to transfer images to a PC and can broaden your enjoyment of transferring data.
For details, see the operating instructions supplied with your TransferJet-compatible device.

- Note the following points when using TransferJet-compatible devices.
  - Before use, set the camera to playback mode.
  - If no image is displayed, press MENU → (Settings) → (Main Settings) → [LUN Settings] → [Single].
  - While connected, data cannot be written to or deleted from the camera.
  - Do not disconnect while importing images to “PMB”.

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View Mode

Allows you to select the display format for images.

1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → (View Mode) → desired mode → ● on the control button

✓	**(Date View)**	Displays images by date.
	(Folder view (Still))	Displays still images.
	MP4 (Folder view (MP4))	Displays MP4-format movies.
	AVCHD (AVCHD view)	Displays AVCHD-format movies.

Note

- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.

Displaying the Calendar

1 MENU → (View Mode) → [Date View] → ● on the control button

2 Turn the (Index) lever repeatedly until the Calendar is displayed.

Use the control button to select ▲/▼, then select the month you want to display. Select the date and press ● to view images of the selected date in index mode.

Viewing images taken with a different camera

This camera creates an Image Database File on the memory card for recording and playing images. If the camera detects images not registered in the Image Database File on the memory card, a registration screen with the message “Files found which were not recognized Import files” will be displayed. To view unregistered images, register them by selecting [OK].

- Use a sufficiently charged battery to register images. If a battery with a low charge is used to register images, it may not be possible to transfer all of the data or the data may be corrupted if the battery charge runs out.

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Display Burst Group

You can select to display burst images in groups or display all images during playback.

1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → (View Mode) → [Date View] → ● on the control button

3 MENU → (Display Burst Group) → desired setting → ●

✓	**(Display Main Image Only)**	Groups burst images, then plays back the main image only. • When Face Detection is performed in burst mode, the camera determines and displays the optimum image as the main image. When Face Detection is not performed, the first image in the burst group is displayed as the main image.
	(Display All)	Plays back all burst images one at a time.

Displaying burst images

When [Display Burst Group] is set to [Display Main Image Only], only the main image of the burst group is displayed.
When the camera displays the main image, you can play back the images in the following ways.

Operation method	Action
Press ● on the control button.	The burst images are displayed as a movie by tilting the camera to the right or left.
Press ▼ on the control button.	The burst images are displayed in the index. The display switches between single image display and thumbnail image display each time you press ● on the control button.

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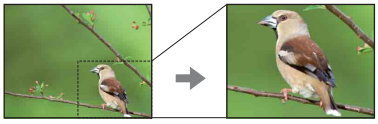
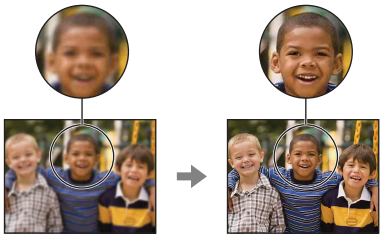
Retouch

Retouches a recorded image and records it as a new file. The original image is retained.

1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → (Retouch) → desired mode → ● on the control button

3 Perform retouching according to the operation method in each mode.

(Trimming (Resize))	Records the zoomed playback image. ① Turn the Q lever to (T) to zoom in and turn to (W) to zoom out. ② Set the zoom point with the control button. ③ MENU → select an image size to save → ● ④ [OK] → ● • The quality of trimmed images may deteriorate. • The image size that you can trim may vary depending on the image. 
(Red Eye Correction)	Corrects the red-eye phenomenon caused by flash. ① Select [OK] with the control button → ●. • You may not be able to correct the red-eye phenomenon depending on the image.
(Unsharp masking)	Sharpens the image within a chosen frame. ① Select the area (frame) of the desired image to retouch with the control button → MENU. ② [OK] → ● • Depending on the image, sufficient correction may not be applied and the image quality may deteriorate. 

Note

- You cannot retouch the following images:
  - Panoramic images
  - 3D images
  - Movies
  - Images displayed in a burst group

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Delete

Allows you to select unwanted images for deletion.
You can also delete images using the (Delete) button (page 45).

1 Press the (Playback) button to switch to playback mode.

2 MENU → (Delete) → desired mode → ● on the control button

3 [OK] → ●

(All but This Image)	Deletes burst group images other than the selected image in Display Burst Group mode. Press [OK] → ● after step 2.
(All Imgs in This Burst Group)	Deletes all images in the selected burst group at once. Press [OK] → ● after step 2.
(This Image)	Deletes the currently displayed image in single-image mode.
(Multiple Images)	Allows you to select and delete multiple images. Do as the following after step 2. ①Select an image then press ●. Repeat the above step until there are no more images to be deleted. Select an image with a ✓ mark again to release the ✓ mark. ②MENU → [OK] → ●
(All Images on This Date) **(All in This Folder)** **(All AVCHD files)**	Deletes all images in the selected date range or folder, or all AVCHD movies at once. Press [OK] → ● after step 2.

Notes

- In Easy Mode, you can select from [1 image] or [All] to delete images.
- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.

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Protect

Protects recorded images against accidental erasure.
The mark is displayed for registered images.

1 Press the (Playback) button to switch to playback mode.

2 MENU → (Protect) → desired mode → ● on the control button

(This Image)	Protects the currently displayed image in single-image mode.
(Multiple Images)	You can select and protect multiple images. After step 2, perform the following. ①Select an image then press ●. Repeat the above step until there are no more images to be protected. Select an image with a ✓ mark to release the ✓ mark. ②MENU → [OK] → ●

Notes

- When the internal memory is used to record images, View Mode is set to Folder View and still images and movies are displayed in the same folder.
- When [Display Burst Group] is set to [Display Main Image Only], only the main image in the burst group is protected. If you want to protect all images, set [Display Burst Group] to [Display All] first, then apply the protection (page 88).

To cancel the protection

Select the image for which you want to cancel protection, and unlock it by pressing ● on the control button as the same procedure to protect it.
The indicator disappears, and the protection is released.

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DPOF

DPOF (Digital Print Order Format) is a function that allows you to specify the images of the memory card that you want to print out later.
The DPOF (Print order) mark is displayed for registered images.

1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → DPOF → desired mode → ● on the control button

DPOF (This Image)	Orders printing the currently displayed image in single-image mode.
DPOF (Multiple Images)	You can select and order printing multiple images. After step 2, perform the following. ①Select an image then press ●. Repeat the above step until there are no more images to be printed. Select an image with a ✓ mark to release the ✓ mark. ②MENU → [OK] → ●

Notes

- The DPOF (Print order) mark cannot be added to the following images:
  - Movies
  - Images in the internal memory
- You can add a DPOF (Print order) mark to a maximum 999 images.

Clearing the DPOF mark

Select the image to clear the DPOF registration, then press ● on the control button in the same procedure as when making a DPOF mark.
The DPOF mark disappears and the DPOF registration is cleared.

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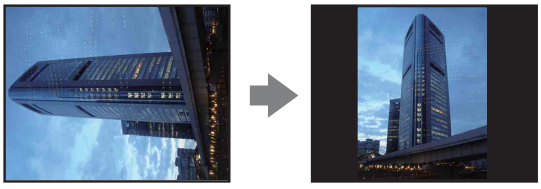
Rotate

Rotates a still image. Use this function to display a horizontal orientation image in vertical orientation.



1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → (Rotate) → ● on the control button

3 Rotate the image with [↶/↷] → ◀/▶.

4 [OK] → ●

Notes

- You cannot rotate the following images:
  - 3D images
  - Movies
  - Images displayed in a burst group
  - Protected still images
- You may not be able to rotate images shot with other cameras.
- When viewing images on a computer, the image rotation information may not be reflected depending on the software.

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Select Folder

When multiple folders are created in a memory card, this function selects the folder containing the image you want to play back.

1 Press the ▶ (Playback) button to switch to playback mode.

2 MENU → (View Mode) → [Folder view (Still)] or [Folder view (MP4)] → ● on the control button

3 MENU → (Select Folder) → ●

4 Select the folder with ◀/▶.

5 [OK] → ●

Note

- This item is not displayed when the internal memory is used to record images.

Viewing images across multiple folders

When multiple folders are created and the first or last image in the folder is displayed, the following indicators appear.
: Moves to the previous folder
: Moves to the next folder
: Moves to either the previous or next folders

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Movie format

You can set the recording method used to record movies.

1 Set the camera to shooting mode.

2 MENU → (Settings) → (Shooting Settings) → [Movie format] → desired mode → ● on the control button

✓	**AVCHD**	Sets the recording method to AVCHD, which is suitable for viewing smooth video images on a high-definition television. AVCHD movies are recorded.
	MP4	Sets the recording method to MP4, which is suitable for WEB uploads and e-mail attachments. MP4 (AVC) movies are recorded.

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AF Illuminator

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The AF illuminator emits red light allowing the camera to focus easily when the shutter button is pressed halfway, until the focus is locked. The AF ON indicator appears at this time.

1 Set the camera to shooting mode.

2 MENU → (Settings) → (Shooting Settings) → [AF Illuminator] → desired mode → ● on the control button

✓	**Auto**	Uses the AF illuminator.
	Off	Does not use the AF illuminator.

Notes

- Focus is achieved as long as the AF illuminator light reaches the subject, regardless of whether light fails to reach the center of the subject.
- You cannot use the AF illuminator in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
  - When (Landscape), (Twilight), (Pet) or (Fireworks) mode is selected in Scene Selection.
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- When you use the AF illuminator, the normal AF range finder frame is disabled and a new AF range finder frame is displayed by a dotted line. AF operates with priority on subjects located near the center of the frame.
- The AF illuminator emits very bright light. Although there is no health hazard, do not look directly into the AF illuminator emitter at close range.

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Grid Line

With reference to the grid lines, you can easily set a subject in a horizontal/vertical position.

1 Set the camera to shooting mode.

2 MENU → (Settings) → (Shooting Settings) → [Grid Line] → desired mode → ● on the control button

	On	Displays the grid lines. The grid lines are not recorded.
✓	**Off**	Does not display the grid lines.

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Digital Zoom

Selects the Digital Zoom mode. The camera enlarges the image using optical zoom (up to 5×). When the zoom scale is exceeded, the camera uses either smart or precision Digital Zoom.

1 Set the camera to shooting mode.

2 MENU → (Settings) → (Shooting Settings) → [Digital Zoom] → desired mode → ● on the control button

✓	**Smart (sQ)**	Enlarges the image digitally within the range where the image will not be distorted, according to the image size. (Smart zoom)
	Precision (PQ)	Enlarges all image sizes by the total zoom scale of approximately 10×, including the optical zoom 5×. However, note that the image quality deteriorates when the optical zoom scale is exceeded. (Precision digital zoom)
	Off	Does not use the Digital Zoom.

Notes

- The Digital Zoom function does not operate in the following situations:
  - In Intelligent Sweep Panorama mode
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In 3D shooting mode
  - In Movie Mode
  - When (Backlight Correction HDR) mode is selected in Scene Selection.
  - When the Smile Shutter function is activated.
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- The smart zoom is not available when the image size is set to [12M] or [16:9(9M)].
- The Face Detection function does not work when using the Digital Zoom.

Total zoom scale when using Smart zoom (including optical zoom 5×)

The supported zoom ratio differs depending on the image size.

Size	Total zoom scale
8M	Approx. 6.1×
5M	Approx. 7.7×
VGA	Approx. 31×
16:9(2M)	Approx. 10×

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Auto Orientation

When the camera is rotated to shoot a portrait (vertical) image, the camera records its position change and displays the image in the portrait position.

1 Set the camera to shooting mode.

2 MENU → (Settings) → (Shooting Settings) → [Auto Orientation] → desired mode → ● on the control button

✓	**On**	Records the image with the correct orientation.
	Off	Does not use Auto Orientation.

Notes

- Black is displayed to the left and right of vertical orientation images.
- Depending on the shooting angle of the camera, the orientation of the image may not be recorded correctly.
- You cannot use [Auto Orientation] in the following situations:
  - In 3D shooting mode
  - In Movie Mode

Rotating images after recording

If the orientation of an image is incorrect, you can use the [Rotate] on the Menu screen to display the image in portrait position.

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Red Eye Reduction

The flash strobes two or more times before shooting to reduce the red-eye phenomenon when using the flash.

1 Set the camera to shooting mode.

2 MENU → (Settings) → (Shooting Settings) → [Red Eye Reduction] → desired mode → ● on the control button

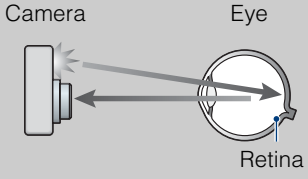
✓	**Auto**	When the Face Detection function is activated, the flash strobes automatically to reduce the red-eye phenomenon.
	On	The flash always strobes to reduce the red-eye phenomenon.
	Off	Does not use Red Eye Reduction.

Notes

- To avoid blurring of images, hold the camera firmly until the shutter is released. It usually takes a second until the shutter is released, and also be sure not to allow the subject to move during this period.
- Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or if the subject looked away from the pre-strobe.
- If you do not use the Face Detection function, Red Eye Reduction does not work, even when you select [Auto].
- [Red Eye Reduction] is set to [Off] in the following situations:
  - In Background Defocus mode
  - In 3D shooting mode
  - When (Anti Motion Blur), (Hand-held Twilight) or ISO (High Sensitivity) mode is selected in Scene Selection.
  - When the Smile Shutter function is activated.

What causes the red-eye phenomenon?

Pupils become dilated in dark environments. Flash light is reflected off the blood vessels at the back of the eye (retina), causing the “red-eye” phenomenon.



Other ways to reduce red-eye

- Select ISO (High Sensitivity) mode in Scene Selection. (The flash is set to [Off] automatically.)
- When the eyes of the subject turn out red, correct the image with [Retouch] → [Red Eye Correction] on the viewing menu or with the supplied software “PMB”.

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Blink Alert

When an image with the subject's eyes closed is recorded while Face Detection is activated, the message "Blinked eye detected" is displayed.

1 Set the camera to shooting mode.

2 MENU → (Settings) → (Shooting Settings) → [Blink Alert] → desired mode → ● on the control button

✓	**Auto**	Displays the "Blinked eye detected" message.
	Off	Does not display the message.

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Beep

Changes the settings of the sound produced when you operate the camera.

1 MENU → (Settings) → (Main Settings) → [Beep] → desired mode → ● on the control button

	Shutter	Turns on the shutter sound when you press the shutter button.
✓	**High**	Turns on the beep/shutter sound when you press the control/shutter button. If you want to lower the beep volume, select [Low].
	Low	
	Off	Turns off the beep/shutter sound.

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Language Setting

Selects the language to be used in the menu items, warnings and messages.

1 MENU → (Settings) → (Main Settings) → [Language Setting] → desired mode → ● on the control button

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Function Guide

You can select whether or not the function guide is displayed when you operate the camera.

1 MENU → (Settings) → (Main Settings) → [Function Guide] → desired mode → ● on the control button

✓	**On**	Displays the function guide.
	Off	Does not display the function guide.

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Display color

Sets the color of the screen display.

1 MENU → (Settings) → (Main Settings) → [Display color] → desired mode → ● on the control button

✓	**Black**	Sets the background color of the LCD screen.
	White	
	Pink	

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Demo Mode

You can set whether to use a demonstration of Smile Shutter or AVCHD movie playback. When there is no need to view a demonstration, set to [Off].

1 MENU → (Settings) → (Main Settings) → [Demo Mode] → desired mode → ● on the control button

	Demo Mode1	A demonstration of the shooting functions will be performed.
	Demo Mode2	Automatically starts the Smile Shutter demonstration when no operation is performed for 15 seconds.
	Demo Mode3	If no operation is performed for a set period of time while the camera is connected to an HD TV, a demonstration of AVCHD movie playback will automatically be performed.
✓	**Off**	Does not perform a demonstration.

Notes

- Pressing the shutter button during the Smile Shutter demonstration operates the shutter, but no image is recorded.
- During a demonstration, if the number of images saved in the internal memory increases, the camera may automatically delete the images.

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Initialize

Initializes the setting to the default setting.
Even if you execute [Initialize], the images are retained.

1 MENU → (Settings) → (Main Settings) → [Initialize] → [OK] → ● on the control button

Note

- Be sure not to turn off the camera while initializing.

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HDMI Resolution

When you connect the camera to a High Definition (HD) TV with HDMI terminals using an HDMI Cable (sold separately), you can select HDMI Resolution to output images to the TV.

1 MENU → (Settings) → (Main Settings) → [HDMI Resolution] → desired mode → ● on the control button

✓	**Auto**	The camera automatically recognizes an HD TV and sets the output resolution.
	1080i	Outputs signals in HD picture quality (1080i).
	480p/576p	Outputs signals in SD picture quality (480p/576p). • If the camera is 1080 60i-compatible, signals are output using 480p, whereas if it is 1080 50i-compatible, signals are output using 576p.

Note

• If you cannot display the screen properly with the [Auto] setting, select either [1080i] or [480p/576p] depending on the TV to be connected.

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CTRL FOR HDMI

This setting allows (TV) remote control of a camera that is connected to a “BRAVIA” Sync TV using the HDMI Cable (sold separately). For details on “BRAVIA” Sync, see page 131.

1 MENU → (Settings) → (Main Settings) → [CTRL FOR HDMI] → desired mode → ● on the control button

✓	**On**	Enables remote-controlled operation.
	Off	Disables remote-controlled operation.

Note

- You can perform the operation of the camera with the remote controller of your TV by connecting your camera to a “BRAVIA” Sync-compatible TV.

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COMPONENT

Selects the video signal output type from either SD or HD (1080i) in accordance with the type of TV you connect to the camera using an HD Output Adaptor Cable (sold separately).
Use a Type3-compliant HD Output Adaptor Cable (sold separately).

1 MENU → (Settings) → (Main Settings) → [COMPONENT] → desired mode → ● on the control button

✓	**HD(1080i)**	Select this item to connect the camera to a 1080i-capable High Definition TV.
	SD	Select this item to connect the camera to a TV that is not compatible with an HD(1080i) signal.

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USB Connect

Sets the mode when the camera is connected to a computer or a USB device using the USB cable.

1 MENU → (Settings) → (Main Settings) → [USB Connect] → desired mode → ● on the control button

✓	**Mass Storage**	Establishes a Mass Storage connection between the camera and a computer or other USB device.
	PTP/MTP	When you connect the camera to a computer, the AutoPlay Wizard appears, and the still images in the recording folder on the camera are imported to the computer. (with Windows 7/Vista/XP, Mac OS X)

Note

- You cannot import movies when [PTP/MTP] is selected. To import movies to the computer, select [Mass Storage].

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LUN Settings

Sets the display method for the recording media displayed on a computer screen or other monitor when the camera is connected with a computer or AV component using a USB connection.

1 MENU → (Settings) → (Main Settings) → [LUN Settings] → desired mode → ● on the control button

✓	**Multi**	The images both on the memory card and in the internal memory are displayed. Select this setting when you connect the camera to a computer.
	Single	When the memory card is inserted into the camera, the images on the memory card are displayed; when it is not inserted, the images in the internal memory are displayed. Select this setting in cases where the images of both the memory card and the internal memory are not displayed when the camera is connected to a device other than a computer.

Note

- Set [LUN Settings] to [Multi] when uploading images to a media service using “PMB Portable”.

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Download Music

You can use “Music Transfer” in the CD-ROM (supplied) to change background music tracks.

1 MENU → (Settings) → (Main Settings) → [Download Music] → ● on the control button

The message “Connect to PC” is displayed.

2 Make a USB connection between the camera and a computer, then start “Music Transfer”.

3 Follow the instructions on the screen to change music files.

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Format Music

You can delete all the background music files stored in the camera. It can be used in cases such as when the background music files are damaged and cannot be played.

1 MENU → (Settings) → (Main Settings) → [Format Music] → [OK] → ● on the control button

Restoring the music preset at the factory to the camera

You can use “Music Transfer” in the CD-ROM (supplied) to reset music files to the preset ones.

①Execute [Download Music], then make a USB connection between the camera and a computer.

②Start “Music Transfer”, then restore the default music.

- For details on using “Music Transfer”, see the help in “Music Transfer”.

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Power Save

Sets the length of time until the LCD screen goes dark and the time until the camera turns off. If you do not operate the camera for a certain period of time while the power is on using the battery pack, the screen goes dark and the camera later turns off automatically to prevent wearing down the battery pack (Auto power-off function).

1 MENU → (Settings) → (Main Settings) → [Power Save] → desired mode → ● on the control button

	Stamina	Proactively saves the battery power. If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the LCD screen automatically goes dark before the power turns off.
✓	**Standard**	If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the LCD screen automatically goes dark before the power turns off. It takes longer before the power turns off than when set to [Stamina].
	Off	Does not use the Auto power-off function.

Note

- The camera does not turn off automatically in the following situations:
  - During slideshow
  - When viewing images shot in [Sweep Multi Angle] mode by tilting the camera
  - When viewing burst images by tilting the camera
  - When playing back movies
  - During HDMI outputting
  - During Eye-Fi connection

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TransferJet

You can select TransferJet communication settings. TransferJet is a close-up, wireless transfer technology that allows data to be transferred by closely aligning two products that you want to communicate with each other. To find out whether your camera is equipped with the TransferJet function, check for the (TransferJet) mark on the bottom of the camera.
Using a Memory Stick with TransferJet (sold separately) allows images to be transferred between TransferJet-compatible devices.
For more details on TransferJet, see the Operating Instructions supplied with Memory Stick with TransferJet.

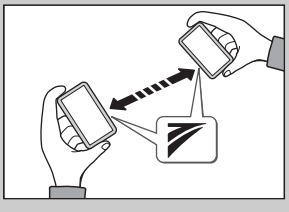
1 MENU → (Settings) → (Main Settings) → [TransferJet] → desired mode → ● on the control button

✓	**On**	Communicates using TransferJet.
	Off	Does not communicate using TransferJet.

Notes

- In Easy Mode, [TransferJet] is fixed to [Off].
- While aboard an airplane, set [TransferJet] to [Off]. In addition, always follow all regulations governing the location in which the camera is being used.
- The connection is cut if transfer cannot be made within about 30 seconds. If this happens, select [Yes] and again align two (TransferJet) marks on the camera and another device.
- Memory Stick with TransferJet and camera models with TransferJet are not sold in some countries and regions due to local laws and regulations.
- Set the [TransferJet] function to [Off] in countries and regions other than where you purchased your camera. Depending on the country or region, if you use the TransferJet function, you may be liable due to local restrictions on transmission of electromagnetic waves.

What is TransferJet?



TransferJet allows you to share images by sending and receiving image data. Insert a Memory Stick with TransferJet in your camera and align two (TransferJet) marks of the camera and another device that supports this function.
For details on image transfer, see page 85.

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Eye-Fi

Sets whether to use the upload function of an Eye-Fi card (commercially available), when you use the Eye-Fi card with this camera. [Eye-Fi] is displayed only when the Eye-Fi card is inserted in the camera.

1 MENU → (Settings) → (Main Settings) → [Eye-Fi] → desired mode → ● on the control button

✓	**On**	Uses the upload function. The Eye-Fi mode display icon on the LCD screen will change depending on the communication mode of the Eye-Fi card. Eye-Fi card is in standby mode. There is no image to be sent. Eye-Fi card is in upload standby mode. Eye-Fi card is in connecting mode. Eye-Fi card is uploading images. An error has occurred.
	Off	Does not use the upload function.

Notes

- As of March 2010, Eye-Fi cards are sold in the U.S.A., Canada, Japan and some countries in the European Union.
- For more information on the Eye-Fi card, contact the manufacturer or seller of Eye-Fi cards directly.
- Eye-Fi cards are permitted only in the countries and regions in which they were purchased. You may be held liable due to local restrictions.
- The Eye-Fi card has a wireless LAN function. Do not insert the Eye-Fi card where wireless LAN is prohibited, such as while aboard an airplane. If the Eye-Fi card is inserted, set [Eye-Fi] to [Off]. When the uploading function of the Eye-Fi card is set to [Off], OFF is displayed on the LCD screen.

Transferring image data using the Eye-Fi card

1 Set the wireless LAN access point settings or the transferring direction settings of the Eye-Fi card.

For details, refer to the operating instructions supplied with the Eye-Fi card.

2 After the settings are finished, insert the Eye-Fi card into the camera, and shoot the images.

The recorded images are automatically transferred via the wireless LAN to the PC, etc.

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Continued ↓

Notes

- When you use a new Eye-Fi card for the first time, copy the install file of the PC application written in the Eye-Fi card first, then format the card.
- Before using the Eye-Fi card, upgrade the firmware of the Eye-Fi card to the latest version. For details on version upgrades, refer to the operating instructions supplied with the Eye-Fi card.
- When uploading image data, [Power Save] is not available.
- If the (error) icon is displayed, eject and re-insert the Eye-Fi card, or turn the power of the camera off and on again. If the (error) icon is still displayed, the Eye-Fi card may be corrupted. For details, contact Eye-Fi, Inc.
- Wireless LAN communication may be interrupted by the other communication devices. If data reception is insufficient, move the camera closer to the access point.
- For details on content that can be uploaded, refer to the operating instructions supplied with the Eye-Fi card.
- Some Eye-Fi cards have an “Endless Memory Mode.” This product does not support “Endless Memory Mode.” Make sure that Eye-Fi cards that you insert into this product have “Endless Memory Mode” turned off. For details on setting “Endless Memory Mode”, refer to the operating instructions supplied with the Eye-Fi card.

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Format

Formats the memory card or the internal memory. To ensure stable operations of the memory card, we recommend that you use this camera to format any memory card being used with this camera for the first time. Note that formatting will erase all data recorded on the memory card. This data cannot be restored. Be sure to backup any important data to a PC or other storage location.

1 MENU → (Settings) → (Memory Card Tool) or (Internal Memory Tool) → [Format] → [OK] → ● on the control button

Note

- Note that formatting permanently erases all data including even protected images.

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Create REC.Folder

Creates a folder in a memory card to store recorded images.
Images are recorded in the newly created folder until you create another folder or select another recording folder.

1 MENU → (Settings) → (Memory Card Tool) → [Create REC.Folder] → [OK] → ● on the control button

Notes

- This item is not displayed when the internal memory is used to record images.
- When you insert a memory card that was used with other equipment into the camera and shoot images, a new folder may be automatically created.
- Up to 4,000 images can be stored in one folder. When the folder capacity is exceeded, a new folder is automatically created.

On the folders

After a new folder is created, you can change the storage destination folder (page 121) and select the folder for viewing images (page 94).

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Change REC.Folder

Changes the folder in the memory card that is currently used to store recorded images.

1 MENU → (Settings) → (Memory Card Tool) → [Change REC.Folder]

2 Select a folder with ◀/▶ on the control button.

3 [OK] → ●

Notes

- This item is not displayed when the internal memory is used to record images.
- You cannot select the following folder as a recording folder.
  - "100" folder
  - A folder with a number that has either "□□□MSDCF" or "□□□ANV01" only
- You cannot move recorded images to another folder.

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Delete REC.Folder

Deletes the folder in a memory card that is used to store recorded images.

1 MENU → (Settings) → (Memory Card Tool) → [Delete REC.Folder]

2 Select a folder with ◀/▶ on the control button.

3 [OK] → ●

Notes

- This item is not displayed when the internal memory is used to record images.
- If you delete the folder set as the recording folder using [Delete REC.Folder], the folder that has the largest folder number is selected as the next recording folder.
- You can delete only empty folders. If a folder contains images, or even files that cannot be played back by the camera, first delete these images and files with a computer, and then delete the folder.

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Copy

Copies all images in the internal memory to a memory card.

1 Insert a memory card with sufficient free capacity into the camera.

2 MENU → (Settings) → (Memory Card Tool) → [Copy] → [OK] → ● on the control button

Notes

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- You cannot copy images individually.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the memory card after copying, then format the internal memory ([Format] in [Internal Memory Tool]).
- A new folder is created on the memory card and all the data will be copied to it. You cannot choose a specific folder and copy images to it.

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File Number

Selects the method used to assign file numbers to images.

1 MENU → (Settings) → (Memory Card Tool) or (Internal Memory Tool) → [File Number] → desired mode → ● on the control button

✓	**Series**	Assigns numbers to files in sequence even if the recording folder or the memory card is changed. (When the replaced memory card contains a file with a number higher than the last assigned number, a number one higher than the largest number is assigned.)
	Reset	Starts from 0001 each time the folder is changed. (When the recording folder contains a file, a number one higher than the largest number is assigned.)

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Area Setting

Adjusts the time to the local time of a selected area.

1 MENU → (Settings) → (Clock Settings) → [Area Setting] → desired setting → ● on the control button

✓	**Home**	You use the camera in your area. When the currently set area differs from your home area, you must make the Area Setting.
	Destination	You use the camera set to the time at your destination. Set the destination area.

Changing Area Setting

Setting a frequently visited destination lets you easily adjust the time when you visit that destination.

①Select the area part for [Destination], then press ● on the control button.

②Select an area with ◄/► on the control button, and select Daylight Savings time with ▲/▼.

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Date & Time Setting

Sets the date and time again.

1 MENU → (Settings) → (Clock Settings) → [Date & Time Setting] → desired setting → ● on the control button

2 Set the numeric value and desired settings with ▲/▼/◄/►.

3 [OK] → ●

Date & Time Format	You can select the date and time display format.
Daylight Savings	You can select Daylight Savings [On]/[Off].
Date & Time	You can set the date and time.

Note

- The camera does not have a feature for superimposing dates on images. By using “PMB” in the CD-ROM (supplied), you can print or save images with the date.

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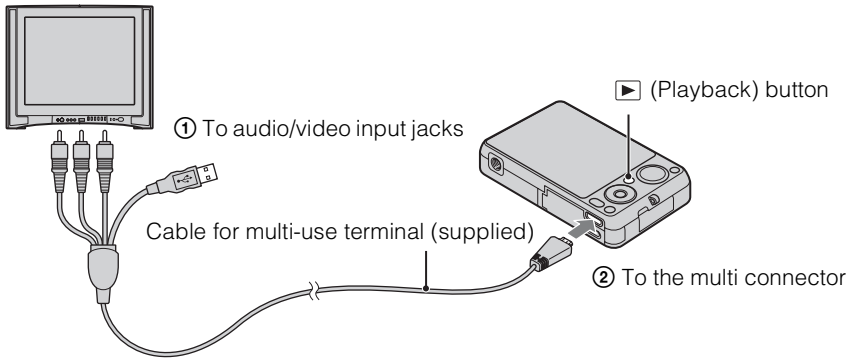
Viewing an image on a Standard Definition (SD) TV

You can view images recorded on the camera in standard picture quality by connecting the camera to a Standard Definition (SD) TV. Refer also to the operating instructions supplied with the TV.

1 Turn off both the camera and the TV.

2 Connect the camera to the TV with the Cable for multi-use terminal (supplied).



3 Turn on the TV and set the input.

4 Press ▶ (Playback) button to turn on the camera.

Images shot with the camera appear on the TV. Select the desired image with the control button.

Note

- During output to TV, [Easy Mode] is invalid.

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Viewing an image on a High Definition (HD) TV

You can view images recorded on the camera in high picture quality by connecting the camera to a High Definition (HD) TV using the HDMI Cable (sold separately) or HD Output Adaptor Cable (sold separately). Use a Type3-compliant HD Output Adaptor Cable. Refer also to the operating instructions supplied with the TV.

1 Turn off both the camera and the HD TV.

2 Connect the camera to the TV using the HDMI Cable (sold separately) or HD Output Adaptor Cable (sold separately).

Notes

- When you play back a single image, no icons are displayed on the TV.
- You cannot play back images in Easy Mode during TV output.
- Images shot in [VGA] image size cannot be played back in the HD format.
- When you shoot movies while the camera and a TV are connected using an HDMI Cable (sold separately) or HD Output Adaptor Cable (sold separately), the image being shot is not displayed on the TV.

“PhotoTV HD”

This camera is compatible with the “PhotoTV HD” standard.
By connecting a Sony TV compatible with “PhotoTV HD” using an HDMI Cable (sold separately) or HD Output Adaptor Cable (sold separately), a whole new world of photos can be comfortably enjoyed in breathtaking Full HD quality.

- “PhotoTV HD” allows for a highly-detailed, photo-like expression of subtle textures and colors.
- When the camera is connected to a Sony TV compatible with Video A mode using an HDMI Cable, your TV is automatically set to the picture quality suitable for still images. When the setting of the TV is set to Video, the picture quality is set to that suitable for movies.
- When playing back an AVCHD movie, it is recommended that you set [View Mode] to [AVCHD view].
- For details, see the operating instructions of the TV.

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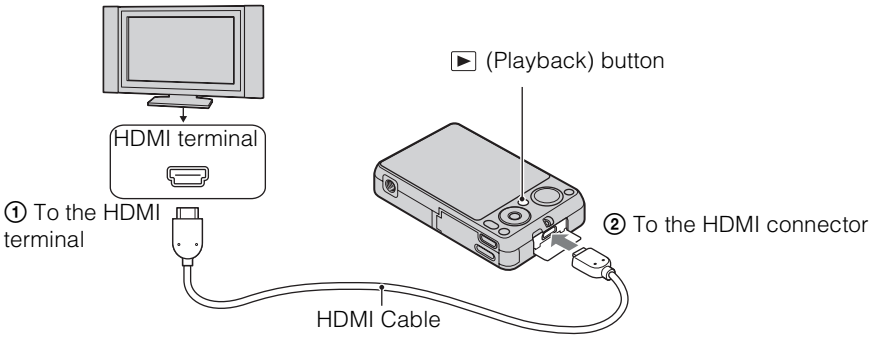
Viewing an image by connecting the camera to an HD TV using the HDMI Cable (sold separately)

Connect the camera to the HDMI terminal of an HD TV using the HDMI Cable (sold separately).

1 Connect the camera to the TV with the HDMI Cable (sold separately).



2 Turn on the TV and set the input.

3 Press (Playback) button to turn on the camera.

Images shot with the camera appear on the TV. Select the desired image with the control button.

Notes

- Press MENU → (Settings) → (Main Settings) to select [Auto] or [1080i] for [HDMI Resolution].
- The beep sound is fixed to [Shutter].
- Do not connect the camera and equipment to be connected using output terminals. When the camera and TV are connected using output terminals, no video and sound are produced. Such a connection can also cause trouble of the camera and/or connected equipment.
- This function may not work properly with some HD TVs. For example, you may not be able to view a video on your HD TV or hear sound from the HD TV.
- Use an HDMI Cable with the HDMI logo.
- When connecting the camera to a TV, use an HDMI Cable that can be connected to the mini jack on the camera end and to the TV jack.
- Recording may automatically stop to protect the camera after a period of time when you shoot movies in the condition where the camera and TV are connected by an HDMI Cable (sold separately).

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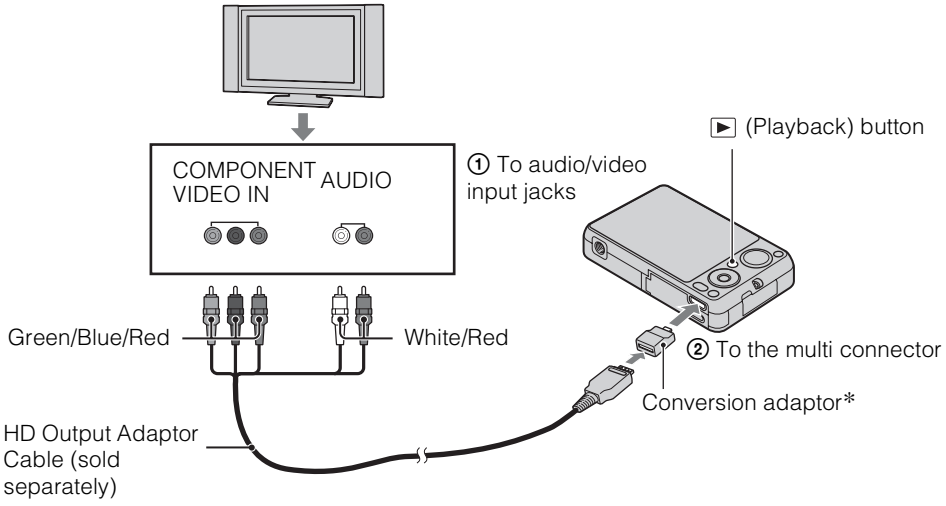
Viewing an image by connecting the camera to an HD TV using the HD Output Adaptor Cable (sold separately)

Connect the camera to an HD (High Definition) TV using the HD Output Adaptor Cable (sold separately). Use a Type3-compliant HD Output Adaptor Cable (sold separately).

1 Attach a conversion adaptor to an HD Output Adaptor Cable (sold separately) and connect the camera to a High Definition (HD) TV with the appropriate cable.



* The conversion adaptor is supplied with a Type3-compliant HD Output Adaptor Cable (sold separately).

2 Turn on the TV and set the input.

3 Press the ▶ (Playback) button to turn on the camera.

Images shot with the camera appear on the TV. Select the desired image with the control button.

Note

- Before you use this function, select MENU → (Settings) → (Main Settings) to select [HD(1080i)] for [COMPONENT].

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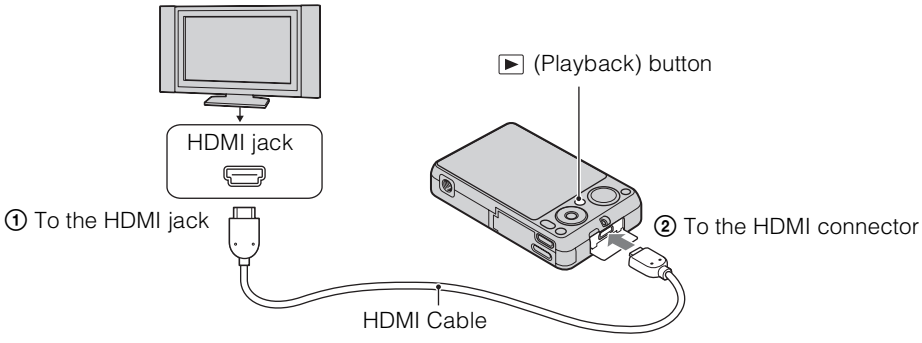
Viewing an image on a “BRAVIA” Sync-compatible TV

When you use a TV that has “BRAVIA” Sync (compatible with SYNC MENU) support, you can operate the playback functions of the camera using the remote controller supplied with the TV by connecting the camera to the TV using the HDMI Cable (sold separately).

1 Connect the camera to the TV using an HDMI Cable (sold separately).



2 Turn on the TV and set the input.

3 Press the ▶ (playback) button of the camera to turn on the camera.

4 MENU → (Settings) → (Main Settings) → [CTRL FOR HDMI] → [On] → ● on the control button

5 Press the SYNC MENU button of the TV’s remote controller to select the desired mode.

Menu	Function
Slideshow with music	Automatically plays back images with sound effects or background music in a continuous loop.
Single Image	Plays back a single image at a time.
Image Index	Displays multiple images at the same time.
3D Viewing	Plays back 3D images recorded in 3D shooting mode.
Delete	Deletes recorded images.
Playback Zoom	Plays back enlarged images.
Rotate	Rotates a still image.
View Mode	Selects the display format for viewing multiple images.

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Continued ↓

Notes

- When the camera is connected to a TV set using an HDMI Cable, the functions that you can operate are limited.
- You can perform the operation of the camera with the remote controller of your TV by connecting your camera to a “BRAVIA” Sync-compatible TV. For details, see the operating instructions of the TV.
- If the camera functions in an undesired manner when you are controlling it using the TV’s remote controller, such as when connected via HDMI to another manufacturer’s TV, press MENU → (Settings) → (Main Settings) → [CTRL FOR HDMI] → [Off].

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Using with your computer

"PMB" and other applications are contained on the CD-ROM (supplied) to allow more versatile use of images shot with your Cyber-shot camera.

Recommended computer environment (Windows)

The following computer environment is recommended when using the supplied software "PMB", "Music Transfer" and "PMB Portable" or importing images via a USB connection.

OS (pre-installed)	Microsoft Windows XP*1 SP3/Windows Vista*2 SP2/ Windows 7
Others	**CPU:** Intel Pentium III 800 MHz or faster (For playing/ editing the High Definition movies: Intel Core Duo 1.66 GHz or faster/ Intel Core 2 Duo 1.66 GHz or faster) **Memory:** 512 MB or more (For playing/ editing the High Definition movies: 1 GB or more) **Hard Disk:** Disk space required for installation—approximately 500 MB **Display:** Screen resolution: 1,024 × 768 dots or more

*1 64-bit editions and Starter (Edition) are not supported.
Windows Image Mastering API (IMAPI) Ver.2.0 or later is required to use the function for creating discs.

*2 Starter (Edition) is not supported.

Recommended computer environment (Macintosh)

The following computer environment is recommended when using the supplied software "Music Transfer" and "PMB Portable" or importing images via a USB connection.

OS (pre-installed)	**USB Connection:** Mac OS X (v10.3 to v10.6) **Music Transfer/PMB Portable:** Mac OS X (v10.4 to v10.6)

Notes

- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.
- If you connect two or more USB devices to a single computer at the same time, some devices, including the camera, may not operate, depending on the types of USB devices you are using.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0 compliant) allows advanced transfer (high speed transfer), as the camera is compatible with Hi-Speed USB (USB 2.0 compliant).
- When your computer resumes activity from suspend or sleep mode, communication between the camera and your computer may not recover at the same time.

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Using the software

Installing “PMB (Picture Motion Browser)” and “Music Transfer” (Windows)

1 Turn on your computer and insert the CD-ROM (supplied) into the CD-ROM drive.

The installation menu screen appears.

- If it does not appear, double-click [Computer] (in Windows XP, [My Computer]) → (SONYPMB).
- If the AutoPlay screen appears, select “Run Install.exe” and follow the instructions that appear on the screen to proceed with the installation.

2 Click [Install].

The “Choose Setup Language” screen appears.

3 Select the desired language, then proceed to the following screen.

The “License Agreement” screen appears.

4 Carefully read the agreement, click the radio button (○ → ◉) to accept the terms of the agreement, and then click [Next].

5 Follow the instructions on the screen to complete the installation.

- For the installation, connect the camera to the computer during the procedure (page 136).
- When the restarting confirmation message appears, restart the computer following the instructions on the screen.
- DirectX may be installed depending on the system environment of your computer.

6 Remove the CD-ROM after the installation is complete.

7 Start up the software.

- To start up “PMB,” click (PMB) on the desktop.
  For the detailed operation method, see the following PMB support page (English only):
  http://www.sony.co.jp/pmb-se/
  or click (PMB Help).
- To start up “PMB” from the Start menu, select [Start] → [All Programs] → (PMB).
- If “PMB” was installed on your computer and if you re-install “PMB” using the supplied CD-ROM, you can start up all the applications from “PMB Launcher.” To start up “PMB Launcher,” double-click (PMB Launcher) on the desktop.

Notes

- Log on as Administrator.
- When “PMB” is started up for the first time, the confirmation message of the Information tool appears on the screen. Select [Start].
- If “PMB” has been already installed on your computer and that “PMB” version number is lower than that of the supplied CD-ROM, re-install “PMB” using the supplied CD-ROM.
- If the version number is higher than that of the supplied CD-ROM, you do not need to re-install “PMB”. When you connect the camera and the computer via USB cable, the available “PMB” function is activated.
- If “PMB” has already been installed on your computer and that “PMB” version number is lower than 5.0, some functions may become invalid after you install “PMB” using the supplied CD-ROM. Also, you can start up “PMB” or other various software from “PMB Launcher” installed at the same time. To start up “PMB Launcher,” double-click (PMB Launcher) on the desktop.

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Installing “Music Transfer” (Macintosh)

1 Turn on your Macintosh computer, and insert the CD-ROM (supplied) into the CD-ROM drive.

2 Double-click (SONYPMB).

3 Double-click the [MusicTransfer.pkg] file in the [Mac] folder.
The installation of the software starts.

Notes

- “PMB” is not compatible with Macintosh computers.
- Shut down all other application software before you install “Music Transfer”.
- For installation, you need to log on as Administrator.

Introduction to “PMB”

- “PMB” allows you to import images shot with the camera to a computer for display. Make a USB connection between the camera and your computer, and click [Import].
- Images on a computer can be exported to a memory card, and displayed on the camera. Make a USB connection between the camera and your computer, click [Export] → [Easy Export (PC Sync)] in the [Manipulate] menu, and click [Export].
- You can save and print images with the date.
- You can display images stored on a computer by shooting date in a calendar display.
- You can correct (Red Eye Reduction, etc.) still images, and change the shooting date and time.
- You can create discs with CD or DVD disc-writing drive.
- Blu-ray discs, AVCHD discs and DVD-Video discs can be created from AVCHD movies imported to a PC. (An environment that provides Internet connectivity is required when creating a Blu-ray disc or DVD-Video disc for the first time.)
- You can upload images to a network service. (An internet connection environment is required.)
- For other details, see (PMB Help).

Introduction to “Music Transfer”

“Music Transfer” allows you to replace the Music files provided in the camera at the factory with your favorite tracks, and to delete and add Music files.
You can also restore the tracks stored at the factory to your camera.

- The following track types can be imported using “Music Transfer”.
  - MP3 files stored on the hard disk of your computer
  - Music CD tracks
  - Preset-music saved on the camera
- Before starting up “Music Transfer,” perform MENU → (Settings) → (Main Settings) → [Download Music], and connect the camera to the computer.

For other details, see the help in “Music Transfer”.

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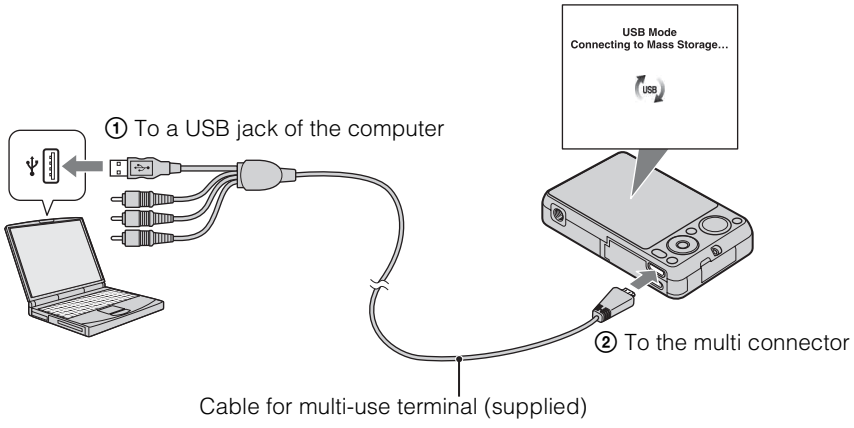
Connecting the camera to a computer

1 Insert a sufficiently charged battery pack into the camera, or connect the camera to a wall outlet (wall socket) using the AC-LS5 AC Adaptor (sold separately) and the USB/AV/DC IN Cable for multi-use terminal (sold separately).
- Use a Type3-compliant USB/AV/DC IN Cable (sold separately).

2 Turn on the computer, then press ▶ (Playback) button.

3 Connect the camera to your computer.
- When a USB connection is established for the first time, your computer automatically runs a program to recognize the camera. Wait for a while.


USB Mode
Connecting to Mass Storage...
① To a USB jack of the computer
② To the multi connector
Cable for multi-use terminal (supplied)

Importing images to a computer (Windows)

"PMB" allows you to easily import images.
For details on "PMB" functions, see the "PMB Help".

Importing images to a computer without using "PMB"

When the AutoPlay Wizard appears after making a USB connection between the camera and a computer, click [Open folder to view files] → [OK] → [DCIM] or [MP_ROOT] → copy the desired images to the computer.

Notes

- Use "PMB" for operations such as when importing AVCHD movies to a computer.
- If operations are performed on an AVCHD movie file or folder on the camera from a PC while the camera is connected to a PC, it may destroy the image file or playback may become impossible. Do not delete or copy AVCHD movies on the camera's memory card from a PC. Sony bears no responsibility for the result of operations of this type.
- The camera creates a 3D image by combining a JPEG file with an MPO file. If you delete either file on a PC, you cannot playback the 3D image.

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Importing images to a computer (Macintosh)

1 Connect the camera to your Macintosh computer first. Double-click the newly recognized icon on the desktop → the folder where the images you want to import are stored.

2 Drag and drop the image files to the hard disk icon.
The image files are copied to the hard disk.

3 Double-click the hard disk icon → the desired image file in the folder containing the copied files.
The image is displayed.

Deleting the USB connection

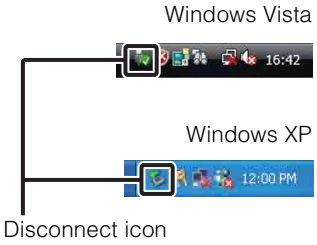
Perform the procedures from step 1 to 3 below before:

- Disconnecting the cable for multi-use terminal.
- Removing a memory card.
- Inserting a memory card into the camera after copying images from the internal memory.
- Turning off the camera.

1 Double-click the disconnect icon on the tasktray.

2 Click (USB Mass Storage Device) → [Stop].

3 Confirm the device on the confirmation window, then click [OK].



Notes

- Drag and drop the icon of the memory card or the drive icon to the “Trash” icon beforehand when you use a Macintosh computer, and the camera is disconnected from the computer.
- When performing operations such as importing AVCHD movies, use the “iMovie” software bundled with Macintosh computers.

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Uploading images to a media service

This camera has a built-in application “PMB Portable”.
You can use this application to do the following:

- You can easily upload images to a blog or other media service.
- You can upload images from a computer connected to the Internet even when you are away from home or the office.
- You can easily register the media services (such as blogs) you use frequently.

For details on “PMB Portable”, see the “PMB Portable” help.

Starting up “PMB Portable” (Windows)

When using “PMB Portable” for the first time, you must select the language. Follow the procedure below to make the selection. Once the language selection has been made, steps 3 to 5 are unnecessary the next time you use “PMB Portable”.

1 Make a USB connection between the camera and a computer.

When you connect the camera and your computer, AutoPlay Wizard appears.
Click [×] to close the AutoPlay Wizard for any unnecessary drives.

- If the desired AutoPlay Wizard does not appear, click [Computer] (in Windows XP, [My Computer]) → [PMBPORTABLE], then double-click [PMBP_Win.exe].

2 Click [PMB Portable].
(in Windows XP, click [PMB Portable] → [OK])

- If [PMB Portable] is not displayed within the AutoPlay Wizard, click [Computer] → [PMBPORTABLE], then double-click [PMBP_Win.exe].

The Language Selection screen appears.

3 Select the desired language, then click [OK].

The Region Selection screen appears.

4 Select the appropriate [Region] and [Country/Area], and then click [OK].

The User Agreement screen appears.

5 Read the agreement carefully. If you accept the terms of the agreement, click [I Agree].

“PMB Portable” starts up.

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Starting up “PMB Portable” (Macintosh)

1 Make a USB connection between the camera and a computer.

When you connect the camera and your computer, [PMBPORTABLE] appears on the desktop.

Click [×] for any unnecessary drives.

2 Click [PMBP_Mac] in the [PMBPORTABLE] folder.

The Region Selection screen appears.

3 Select the appropriate [Region] and [Country/Area], and then click [OK].

The User Agreement screen appears.

4 Read the agreement carefully. If you accept the terms of the agreement, click [I Agree].

“PMB Portable” starts up.

Notes

- “PMB Portable” is not supported for AVCHD movies.
- Set [LUN Settings] in [Main Settings] to [Multi].
- Always connect to a network when using “PMB Portable”.
- When uploading images over the Internet, the cache may remain in the computer being used depending on the service provider. This is also true when this camera is used for this purpose.
- When a bug occurs in “PMB Portable” or you delete “PMB Portable” by mistake, you can repair “PMB Portable” by downloading the PMB Portable installer from the web site.

Notes on “PMB Portable”

“PMB Portable” makes it possible to download the URLs of a number of websites from the server administered by Sony (the “Sony server”).
In order to use “PMB Portable” to enjoy the benefits of the image uploading service or other services (the “services”) provided by these and other websites, you must consent to the following.

- Some websites require registration procedures and/or fees to use their services. In using such services, you must comply with the terms and conditions established by the websites concerned.
- Services may be terminated or changed in accordance with the convenience of the website operators. Sony will not be held responsible for any trouble occurring between the users and third parties or any inconvenience caused to users relating to the utilization of the services inclusive of the termination of or changes to such services.
- To view a website, you will be redirected to it by the Sony server. There may be times when you cannot access the website because of server maintenance or for other reasons.
- If the operation of the Sony server is to be terminated, you will be notified of the termination ahead of time on Sony website, etc.
- The URLs to which you are redirected by the Sony server and other information may be recorded for the purposes of improving Sony future products and services. However, no personal data will be recorded on such occasions.

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Creating a disc of movies

You can create a disc from AVCHD movies that have been recorded with this camera.

Selecting the method for creating a disc of movies

Select the method that suits your disc player.
For details on the method for creating a disc using “PMB”, see “PMB Help.”
To import movies into a PC, see page 136.

Player	Creation method	Disc type
Blu-ray disc playback devices (Blu-ray disc player, PlayStation®3, etc.)	Importing movies to a computer using “PMB” and creating a Blu-ray disc	
AVCHD format playback devices (Sony Blu-ray disc player, PlayStation®3, etc.)	Importing movies to a computer using “PMB” and creating an AVCHD format disc	
	Creating an AVCHD format disc using a DVD Writer/Recorder other than DVDirect Express	
Ordinary DVD playback devices (DVD player, computer that can play DVDs, etc.)	Importing movies to a computer using “PMB” and creating a standard definition image quality (STD) disc	

Notes

- If you create a disc using Sony DVDirect (DVD Writer), use the memory card slot of the DVD Writer or connect the DVD Writer via USB connection to transfer the data.
- If you use Sony DVDirect (DVD Writer), check that the firmware is updated to the newest version. For details, see the following URL: http://sony.storagesupport.com/

Characteristics of each type of disc

Using a Blu-ray disc enables you to record high-definition image quality (HD) movies of a longer duration than DVD discs.

High-definition image quality (HD) movies can be recorded on DVD media, such as DVD-R discs, and a high-definition image quality (HD) disc is created.

- You can play a high-definition image quality (HD) disc on AVCHD format playback devices, such as a Sony Blu-ray disc player and a PlayStation®3. You cannot play the disc on ordinary DVD players.

Standard definition image quality (STD) movies converted from high-definition image quality (HD) movies can be recorded on DVD media, such as DVD-R discs, and a standard definition image quality (STD) disc is created.

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Types of discs that can be used with “PMB”

The following 12-cm discs can be used with “PMB”. For information on Blu-ray discs, see page 141.

Disc type	Characteristics
DVD-R / DVD+R / DVD+R DL	Cannot be re-written.
DVD-RW / DVD+RW	Can be re-written and used again.

- Always maintain your PlayStation®3 to use the latest version of the PlayStation®3 system software.
- The PlayStation®3 may not be available in some countries/regions.

Creating AVCHD discs

An AVCHD disc with HD picture quality can be created from AVCHD movies imported to a PC using supplied “PMB” software.

1 Turn on the power of the PC and insert an unused disc in the DVD drive.
2 Start “PMB”.
3 Select the AVCHD movie to be written to the disc.
4 Click

(Create Discs), then select [Create AVCHD Format Discs (HD)].
5 Create the disc by following the on-screen instructions.

Notes

- Be sure that “PMB” has already been installed (page 134).
- Still images and MP4 movies cannot be recorded on an AVCHD disc.
- Disc creation may take time.

Playing an AVCHD disc on a PC

AVCHD discs can be played on a PC using “Player for AVCHD” installed along with “PMB”. To start the software, click on [Start] → [All Programs] → [PMB] → [PMB Launcher] → [View] → [Player for AVCHD].
For detailed operations, see the Help for “Player for AVCHD”.

- Images may not play back smoothly depending on the PC environment.

Creating Blu-ray discs

You can create Blu-ray discs from AVCHD movies imported to a PC.
The PC in question must be capable of creating Blu-ray discs. BD-R (not re-writable) or BD-RE (re-writable) discs can be used. Multi-session recordings cannot be made.
To create Blu-ray discs, be sure to install [BD add-on software] on the “PMB” installation screen. To install, your PC must be connected to the Internet.
For detailed operations, see “PMB Help”.

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Creating standard definition image quality (STD) discs

DVD discs with standard definition image quality (STD) can be created using supplied “PMB” software and selecting an AVCHD movie imported to the PC.

1 Turn on the power of the PC and insert an unused disc in the DVD drive.
  • If software other than “PMB” starts automatically, exit that software.
2 Start “PMB”.
3 Select the AVCHD movie to be written to the disc.
4 Click

(Create Discs), then select [Create DVD-Video Format Discs (STD)].
5 Create the disc by following the on-screen instructions.

Notes

- Be sure that “PMB” has already been installed (page 134).
- Discs cannot be created for MP4 movies.
- Disc creation may take time due to converting the AVCHD movie to standard definition image quality (STD).
- The PC must be connected to the Internet the first time a DVD-Video disc is created.

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Printing still images

You can print still images using the following methods.

- Printing directly using a memory card-compliant printer
  For details, see the operating instructions supplied with the printer.
- Printing using a computer
  You can import images to a computer using the supplied “PMB” software and print the images. You can insert the date on the image and print it.
  For details, see the “PMB Help”.
- Printing at a shop

Notes

- When you print still images shot in 16:9 mode, both edges may be cut off.
- You cannot print panoramic images depending on the printer.

Printing at a shop

You can take a memory card containing images shot with the camera to a photo printing service shop. As long as the shop supports photo printing services conforming to DPOF, you can make a DPOF (Print order) mark on images in advance on the viewing menu so that you do not have to reselect them when you print them out at the shop.

Notes

- You cannot print images stored in the internal memory at a print shop directly from the camera. Copy the images to a memory card (page 123), then take the memory card to the print shop.
- Consult your photo printing service shop as to what types of memory card they can process.
- A memory card adaptor (sold separately) may be necessary. Consult your photo printing service shop.
- Before you take image data to a shop, always copy (back up) your data to a disk.
- You cannot set the number of prints.
- If you want to superimpose dates on images, consult your photo printing service shop.

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Troubleshooting

If you experience trouble with the camera, try the following solutions.

❶ Check the items on pages 144 to 151.
If a code such as "C/E:□□:□□" appears on the screen, see page 152.

❷ Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.

❸ Initialize the settings (page 107).

❹ Consult your Sony dealer or local authorized Sony service facility.

Be aware that by sending the camera for repair, you give consent that the contents of the internal memory, music files may be checked.

Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.
http://www.sony.net/

Battery pack and power

Cannot insert the battery pack.

- Make sure the direction of the battery is correct, and insert it until the battery eject lever is locked.

Cannot turn on the camera.

- After inserting the battery pack into the camera, it may take a few moments for the camera to power up.
- Insert the battery pack correctly.
- The battery pack is discharged. Insert a charged battery pack.
- The battery pack terminals are dirty. Gently wipe away any dirt with a soft cloth.
- Use a recommended battery pack.

The power turns off suddenly.

- Depending on the camera and battery temperature, the power may turn off automatically to protect the camera. In this case, a message is displayed on the LCD screen before the power turns off.
- If you do not operate the camera for a certain period of time while the power is on and [Power Save] is set to [Standard] or [Stamina], the camera turns off automatically to prevent wearing down the battery pack. Turn on the camera again.

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The remaining charge indicator is incorrect.

- This is caused when you use the camera in an extremely hot or cold location.
- A discrepancy arose between the remaining charge indicator and the actual remaining battery charge. Fully discharge the battery pack once, then charge it to correct the indication. Depending on conditions of use, the display may remain incorrect.
- Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.

Cannot charge the battery pack.

- You cannot charge the battery pack using the AC Adaptor (sold separately). Use the battery charger to charge the battery.

The CHARGE lamp flashes while charging the battery.

- Check that the battery pack type is NP-BN1.
- The CHARGE lamp flashes infrequently when you use a battery pack that has not been used for a long time.
- The CHARGE lamp (on the supplied battery charger) has two flash patterns, fast flash (approx. 0.15-second intervals) and slow flash (approx. 1.5-second intervals). If the lamp flashes quickly, remove the battery pack being charged, and then insert the same battery pack into the battery charger again (until it clicks). If the lamp flashes quickly again, this may indicate a battery pack problem.
  If the lamp flashes slowly, the charger is in standby mode and charging has temporarily stopped. Charging stops temporarily and standby mode results when the temperature is outside the range suitable for charging. Charging resumes and the CHARGE lamp lights when the temperature returns to the range suitable for charging.
  It is recommended to charge the battery pack within the proper charging temperature range between 10°C to 30°C (50°F to 86°F).
- For details, see page 161.

Shooting still images/movies

Cannot record images.

- When images cannot be recorded into a memory card but are recorded into the internal memory, even though a memory card has been inserted into the camera, make sure that the memory card has been fully inserted.
- Check the free capacity of the internal memory or memory card. If it is full, do one of the following:
  – Delete unnecessary images (pages 45, 90).
  – Change the memory card.
- You cannot record images while charging the flash.
- For recording movies, it is recommended that you use the following memory cards:
  – “Memory Stick PRO Duo” (Mark2) media, “Memory Stick PRO-HG Duo” media
  – SD memory card, SDHC memory card or SDXC memory card (Class 4 or faster)
- Set [Demo Mode] to [Off] (page 106).

Smile Shutter function does not work.

- No image is shot if a smiling face is not detected.
- Set [Demo Mode] to [Off] (page 106).

Anti-blur function does not work.

- The anti-blur function may not work properly when shooting night scenes.
- Shoot after pressing the shutter button halfway down.

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Recording takes a long time.

- When the shutter speed becomes slower than a certain speed, for example, when you shoot images in dark locations, the camera automatically reduces the image noise. This function is called NR (noise reduction) slow shutter and the shooting time takes longer.

The image is out of focus.

- The subject is too close. When shooting, make sure to position the lens farther away from the subject than the minimum shooting distances (approximately 5 cm (2 inches) (W)/90 cm (2 ft 11 3/8 inches) (T) from the lens).
- (Twilight), (Landscape) or (Fireworks) mode is selected in Scene Selection when shooting still images.

Zoom does not work.

- You cannot use the zoom in the following situations:
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
- You cannot use the Smart zoom depending on the image size (page 98).
- You cannot use the Digital Zoom in the following situations:
  - In Superior Auto Adjustment mode
  - In Background Defocus mode
  - In Movie Mode
  - When (Backlight Correction HDR) mode is selected in Scene Selection.
  - When the Smile Shutter function is activated.

Cannot select the Face Detection function.

- You can select Face Detection only when the focus mode is set to [Multi AF] and the Metering Mode is set to [Multi].

The flash does not work.

- You cannot use the flash in the following situations:
  - In Background Defocus mode
  - When shooting burst images
  - When (Anti Motion Blur) mode, (Twilight) mode, (Hand-held Twilight) mode, (High Sensitivity) mode or (Fireworks) mode is selected in Scene Selection.
  - In Intelligent Sweep Panorama mode
  - In 3D shooting mode
  - In Movie Mode
- Set the flash to [On] (page 36) when the Scene Selection mode is set to (Landscape), (Gourmet), (Pet), (Beach) or (Snow) mode.

Fuzzy white circular spots appear in images shot using the flash.

- Particles (dust, pollen, etc.) in the air reflected the flash light and appeared in the image. This is not a malfunction.

The close-up shoot function (Macro) does not work.

- The camera automatically adjusts the focus. Press and hold the shutter button halfway down. Focus adjustment may take some time when shooting a close subject.
- (Landscape) mode, (Twilight) mode or (Fireworks) mode is selected in the Scene Selection.

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The date and time are not displayed on the LCD screen.

- While shooting, the date and time are not displayed. They are displayed only during playback.

Cannot insert dates on images.

- This camera does not have a feature for superimposing dates on images. By using “PMB”, you can print or save images with the date (page 134).

The F value and shutter speed flash when you press and hold the shutter button halfway down.

- The exposure is incorrect. Correct the exposure (page 67).

The image colors are not correct.

- Adjust the White Balance (page 69).

Noise appears in the image when you view the screen in a dark place.

- The camera is attempting to increase the visibility of the screen by temporarily brightening the image under conditions of low illumination. There is no effect on the recorded image.

You can see a dark shadow on the image.

- Depending on the brightness of the subject, you may see a dark shadow when you change the aperture. This is not a malfunction.

The eyes of the subject come out red.

- Set [Red Eye Reduction] to [Auto] or [On] (page 100).
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.
- Retouch the image using [Retouch] → [Red Eye Correction] in viewing menu, or correct using “PMB”.

Dots appear and remain on the screen.

- This is not a malfunction. These dots are not recorded.

Cannot shoot images in succession.

- The internal memory or memory card is full. Delete unnecessary images (pages 45, 90).
- The battery level is low. Insert charged battery pack.

The same image is shot several times.

- Set [Burst Settings] to [Single] (page 65).
- [Scene Recognition] is set to [Advanced] (page 74).

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Viewing images

Cannot play back images.

- Make sure that the memory card is fully inserted into the camera.
- The folder/file name has been changed on your computer.
- No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.
- The camera is in USB mode. Delete the USB connection (page 137).
- Use “PMB” to play images stored on a PC with this camera.

Cannot play back stereoscopic images on the camera.

- Stereoscopic images can be played back on this camera only when that image has been recorded using [Sweep Multi Angle] mode.
- 3D images consist of a JPEG file and an MPO file. If either file is deleted on the PC, the camera may not operate correctly.

The date and time are not displayed.

- The screen display is set to display images only. Press the DISP (Screen Display Settings) button to display information (page 34).

Left and right sides of the screen are shown in black.

- [Auto Orientation] is set to [On] (page 99).

Cannot hear music during slideshow.

- Transfer music files to the camera with “Music Transfer” (pages 134, 135).
- Confirm that the volume setting and slideshow setting are correct (page 82).
- Slideshow is played back with [Continuous Playback]. Select [Slideshow with music] and play back.

The image does not appear on the TV.

- The camera and television must use the same color television system (page 157).
- Check whether the connection is correct (pages 127, 128).
- If the USB connector of the cable for multi-use terminal is connected to another device, disconnect it (page 137).

The 3D images do not appear on the TV even though the camera is in [3D Viewing] mode.

- Check that the TV is set to display the 3D images.

Deleting

Cannot delete an image.

- Cancel the protection (page 91).

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Computers

A “Memory Stick PRO Duo” media is not recognized by a computer with a “Memory Stick” media slot.

- Check that the computer and the “Memory Stick” media Reader/Writer support a “Memory Stick PRO Duo” media. Users of computers and the “Memory Stick” media Readers/Writers made by manufacturers other than Sony should contact those manufacturers.
- If a “Memory Stick PRO Duo” media is not supported, connect the camera to the computer (page 136). The computer recognizes the “Memory Stick PRO Duo” media.

Your computer does not recognize the camera.

- When the battery level is low, insert the charged battery pack or use the AC Adaptor (sold separately).
- Set [USB Connect] to [Mass Storage] (page 111).
- Use the cable for multi-use terminal (supplied).
- Disconnect the cable for multi-use terminal from both the computer and the camera, and connect it again firmly.
- Disconnect all equipment other than the camera, the keyboard and the mouse from the USB connectors of your computer.
- Connect the camera directly to your computer without passing through a USB hub or other device.

Cannot import images.

- Connect the camera and your computer correctly making a USB connection (page 136).
- When you shoot images with a memory card formatted by a computer, you may not be able to import the images to a computer. Shoot using a memory card formatted by the camera (page 119).

After making a USB connection, “PMB” does not start automatically.

- Make the USB connection after the computer is turned on.

After making a USB connection, “PMB Portable” does not start.

- Set [LUN Settings] to [Multi].
- Set [USB Connect] to [Mass Storage].
- Connect the computer to the network.

Cannot play back images on your computer.

- If you are using “PMB”, refer to “PMB Help” (page 134).
- Consult the computer or software manufacturer.

The image and sound are interrupted by noise when you view a movie on a computer.

- You are playing back the movie directly from the internal memory or the memory card. Use “PMB” and import the movie to your computer, then play back the movie (page 134).

Images once exported to a computer cannot be viewed on the camera.

- Use “PMB” to play images stored on a PC with this camera.
- Register the image in the Image Database File and play in [Date View] (page 87).
- Event View is not available on this camera.

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Memory card

Cannot insert a memory card.

- Insert it in the correct direction.

You have formatted a memory card by mistake.

- All the data on the memory card is deleted by formatting. You cannot restore it.

Data is being recorded to internal memory even though you inserted a memory card.

- Check that the memory card has been securely inserted as far as it will go.

Internal memory

Cannot play back or record images using the internal memory.

- There is a memory card inserted in the camera. Remove it.

Cannot copy the data stored in the internal memory to a memory card.

- The memory card is full. Copy to a memory card with sufficient capacity.

Cannot copy the data on the memory card or the computer to the internal memory.

- This feature is not available.

Printing

Cannot print an image.

- Refer to the operation manual of the printer.

Images are printed with both edges cut off.

- Depending on your printer, all the edges of the image may be cut off. Especially when you print an image shot with the image size set to [16:9], the lateral end of the image may be cut off.
- When printing images using your printer, cancel the trimming or borderless settings. Consult the printer manufacturer as to whether the printer provides these functions or not.
- When having images printed at a digital print shop, ask the shop whether they can print the images without cutting off both edges.

Cannot print images with the date.

- Using “PMB”, you can print images with date (page 134).
- The camera does not have a feature for superimposing dates on images. However, because the images shot with the camera include information on the recording date, you can print images with the date superimposed if the printer or the software can recognize Exif information. For compatibility with Exif information, consult the manufacturer of the printer or the software.
- If you use a photo printing service, ask them to superimpose the dates on images.

Cannot print the 3D images as they are displayed on the camera’s LCD screen.

- The 3D images displayed on the camera are MPO files, but the images to be printed are JPEG files, so in some cases, the images to be printed out are not the same as the ones displayed on the LCD screen.

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Others

The lens gets fogged.

- Moisture condensation has occurred. Turn off the camera and leave it for about an hour before using it.

The camera turns off with the lens portion extended.

- The battery pack is discharged. Replace it with a charged battery pack, then turn the camera on again.
- Do not attempt to force the lens that has stopped moving.

The camera becomes warm when you use it for a long time.

- This is not a malfunction.

The Clock Set screen appears when you turn on the camera.

- Set the date and time again (page 126).
- The internal rechargeable backup battery has discharged. Insert a charged battery, and set aside for 24 hours or more with the power left off.

The date or time is incorrect.

- The Area Setting is set to a different location than your current location. Change the setting by MENU → (Settings) → [Clock Settings] → [Area Setting].

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Warning indicators and messages

Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on the camera is working. The last two digits (indicated by □□) will differ depending on the state of the camera.
If you cannot solve the problem even after trying the following corrective actions a few times, the camera may need repair. Contact your Sony dealer or local authorized Sony service facility.

C:32:□□

- There is trouble with the camera's hardware. Turn the power off and on again.

C:13:□□

- The camera cannot read or write data on the memory card. Try turning off and on the camera again, or taking out and inserting the memory card several times.
- The internal memory has experienced a format error, or an unformatted memory card is inserted. Format the internal memory or the memory card (page 119).
- The inserted memory card cannot be used with the camera, or the data is damaged. Insert a new memory card.

E:61:□□

E:62:□□

E:91:□□

- A camera malfunction has occurred. Initialize the camera (page 107), then turn the power on again.

E:94:□□

- There is a malfunction when writing or deleting data. Repair is required. Contact your Sony dealer or local authorized Sony service facility. Be prepared to give all numbers in the error code beginning from the E.

Messages

If the following messages appear, follow the instructions.

- The battery level is low. Charge the battery pack immediately. Depending on the conditions of use or the type of battery pack, the indicator may flash even though there are still 5 to 10 minutes of remaining battery time left.

For use with compatible battery only

- The battery inserted is not an NP-BN1 (supplied) battery pack.

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System error

- Turn the power off and then on again.

Camera overheating
Allow it to cool

- The camera temperature has risen. The power may turn off automatically, or you may be unable to record movies. Leave the camera in a cool location until the temperature goes down.

Internal memory error

- Turn the power off and then on again.

Reinsert the memory card

- The inserted memory card cannot be used in the camera (page 3).
- The terminal section of the memory card is dirty.
- The memory card is damaged.

Memory card type error

- The inserted memory card cannot be used in the camera (page 3).

This memory card may not record or play

- The inserted memory card cannot be used in the camera (page 3).

Error formatting internal memory
Error formatting memory card

- Format the media again (page 119).

Buffer overflow

- If you use a memory card that has been recorded and erased repeatedly, or that was formatted on a different camera, the data writing speed may be too slow. First back up any data on the card to a computer, and then reformat the card before using it (page 119).
- The writing speed of the memory card you are using is not sufficient for movie recordings. Use a "Memory Stick PRO-HG Duo" media, "Memory Stick PRO Duo" (Mark2) media, or an SD card (Class 4 or faster).

Memory card locked

- You are using the memory card with the write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position.

Read only memory card

- The camera cannot record or delete images on this memory card.

Writing to the memory card was not completed correctly
Recover data

- Reinsert the memory card, and follow the instructions on the screen.

No images

- No images that can be played back have been recorded in the internal memory.
- No images that can be played back have been recorded in the memory card.

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No still images

- There are no 3D images that can be played back in [3D Viewing] mode.
- The selected folder or date does not contain a file that can be played back in a slideshow.

File found which was not recognized

- You tried to delete a folder containing a file that cannot be played on this camera. Delete the file on a computer and then delete the folder.

Folder error

- A folder with the same first three digit number already exists on the memory card (for example: 123MSDCF and 123ABCDE). Select another folder, or create a new folder (pages 120, 121).

Cannot create more folders

- The folder with a name beginning with “999” exists on the memory card. You cannot create any folders if this is the case.

Empty folder contents

- You tried to delete a folder containing one or more files. Delete all of the files and then delete the folder.

Folder protected

- You tried to delete a folder that is protected as read only on a computer.

Cannot display file

- An error occurred while the image was playing back.
  No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.

Read only folder

- You have selected a folder that cannot be set as a recording folder on the camera. Select another folder (page 121).

File protected

- Release the protection (page 91).

Image size over limit

- You are playing back an image with size that cannot be played back on the camera.

Unable to detect face for retouch

- You may not be able to retouch the image depending on the image.

(Vibration warning indicator)

- Camera shake may occur due to insufficient light. Use the flash, or mount the camera on a tripod to secure the camera.

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MP4 12M is not supported with this memory card
MP4 6M is not supported with this memory card

- For recording movies, it is recommended that you use a “Memory Stick PRO Duo” (Mark2) media, a “Memory Stick PRO-HG Duo” media or an SD memory card (Class 4 or faster).

Recording is unavailable in this movie format

- Set [Movie format] to [MP4] (page 95).

Turn the power off and on again

- The lens malfunction.

Maximum number of images already selected

- Up to 10 files can be selected when using [TransferJet].
- Up to 100 files can be selected when using [Multiple Images].
- You can add DPOF (Print order) marks to up to 999 files.

Error Playing Music

- Delete the Music file, or replace it with a normal Music file.
- Execute [Format Music], then download a new Music file.

Error Formatting Music

- Execute [Format Music].

Operation cannot be executed in unsupported files

- Processing and other editing functions of the camera cannot be performed on image files that have been processed using a computer or images that were recorded with other cameras.

Preparing Image Database File Please wait

- The camera restores the date information, etc., in cases where images have been deleted on a PC, etc.
- The necessary Image Database File is created after the memory card is formatted.

FULL

- The number of images exceeds that for which date management in a database file by the camera is possible. To register additional images in the Image Database File, delete images in [Date View].

Inconsistencies found in Image Database File. Recover data

- AVCHD movies cannot be recorded or played because the Image Database File is corrupt. Follow the on-screen instructions to recover the Image Database File.

Error

- It is not possible to record to the camera’s Image Database File or play back using [Date View]. Use “PMB” to back up all images to a PC and use it to restore a memory card or internal memory.

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Image Database File error
Cannot recover

- Import all of the images to the computer with “PMB”, and format the memory card or the internal memory (page 119).
  To view the images again with the camera, export the imported images to the camera with “PMB”.

Recording function unavailable due to high internal temperature

- The camera temperature has risen. You cannot record images until the temperature has gone down.

Recording has stopped due to increased camera temperature

- Recording has stopped due to a rise in temperature while recording a movie. Please wait until the temperature goes down.

- When you record movies for a long time, the camera temperature rises. In this case, stop recording movies.

Connection failed

- Check the TransferJet reception port and transfer data correctly (page 16).

Some files were not sent
Some files were not received

- Either communication was cut off during image transfer, or transfer was cut off because device memory is full. Check the available memory capacity and try transferring data using TransferJet again.
- You may not be able to receive the image depending on the image.

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Using the camera abroad

You can use the battery charger (supplied), and the AC-LS5 AC Adaptor (sold separately) in any country or region where the power supply is within 100 V to 240 V AC, 50/60 Hz.

Note

- Do not use an electronic transformer (travel converter), as this may cause a malfunction.

On TV color systems

To view movies shot using this camera on a television, the camera and television must use the same color television system. Check the color TV system for the country or region where you are using the camera.

NTSC system (1080 60i)

Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.

PAL system (1080 50i)

Australia, Austria, Belgium, China, Croatia, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Indonesia, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Rumania, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, Turkey, United Kingdom, Viet Nam, etc.

PAL-M system (1080 50i)

Brazil

PAL-N system (1080 50i)

Argentina, Paraguay, Uruguay

SECAM system (1080 50i)

Bulgaria, France, Greece, Guiana, Iran, Iraq, Monaco, Russia, Ukraine, etc.

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Memory card

The types of memory cards that can be used with the camera are “Memory Stick PRO Duo” media, “Memory Stick PRO-HG Duo” media, “Memory Stick Duo” media, SD memory card, SDHC memory card and SDXC memory card.
MultiMediaCard cannot be used.

Notes

- A memory card formatted with a computer is not guaranteed to operate with the camera.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- Data may be corrupted in the following cases:
  - When the memory card is removed or the camera is turned off during a read or write operation
  - When the memory card is used in locations subject to static electricity or electrical noise
- We recommend backing up important data.
- Do not attach a label on the memory card itself nor on a memory card adaptor.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not strike, bend or drop the memory card.
- Do not disassemble or modify the memory card.
- Do not expose the memory card to water.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- Insert a memory card that fits the memory card slot size. Otherwise, it will cause a malfunction.
- Do not use or store the memory card under the following conditions:
  - High temperature locations such as the hot interior of a car parked in direct sunlight
  - Locations exposed to direct sunlight
  - Humid locations or locations with corrosive substances present

Note on using the memory card adaptor (sold separately)

- When inserting a memory card into a memory card adaptor, make sure the memory card is inserted facing in the correct direction, then insert it all the way in. Incorrect insertion may result in a malfunction.

“Memory Stick” media

The types of “Memory Stick Duo” media that can be used with the camera are listed in the table below. However, proper operation cannot be guaranteed for all “Memory Stick Duo” media functions.

“Memory Stick” media type	Recording/Playback
Memory Stick Duo (without MagicGate)	○*1
Memory Stick Duo (with MagicGate)	○*2
MagicGate Memory Stick Duo	○*1*2
Memory Stick PRO Duo	○*2*3
Memory Stick PRO-HG Duo	○*2*3*4

*1 High-speed data transfer using a parallel interface is not supported.
*2 “Memory Stick Duo” media, “MagicGate Memory Stick Duo” media, “Memory Stick PRO Duo” media and “Memory Stick PRO-HG Duo” media are equipped with MagicGate functions. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with the camera.
*3 [AVC HD 17M FH], [AVC HD 9M HQ], [MP4 12M] or [MP4 6M] movies cannot be recorded to internal memory or a Memory Stick other than a “Memory Stick PRO Duo” media.
*4 This camera does not support 8-bit parallel data transfer. It performs the same 4-bit parallel data transfer as the “Memory Stick PRO Duo” media.

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Continued ↓

Notes on using a “Memory Stick Micro” media (sold separately)

- This product is compatible with “Memory Stick Micro” media (“M2”). “M2” is an abbreviation for “Memory Stick Micro” media.
- To use a “Memory Stick Micro” media with the camera, be sure to insert the “Memory Stick Micro” media into an “M2” Adaptor as large as of Duo size. If you insert a “Memory Stick Micro” media into the camera without an “M2” Adaptor as large as of Duo size, you might not be able to remove it from the camera.
- Do not leave the “Memory Stick Micro” media within the reach of small children. They might accidentally swallow it.

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Battery pack

On charging the battery pack

- We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F). The battery pack may not be fully charged in temperatures outside this range.

Effective use of the battery pack

- Battery performance decreases in low temperature surroundings. So in cold places, the operational time of the battery pack is shorter. We recommend the following to ensure longer battery pack use:
  – Put the battery pack in a pocket close to your body to warm it up, and insert it in the camera immediately before you start shooting.
- The battery pack will run out quickly if you use the flash or zoom frequently.
- We recommend having spare battery packs handy for two or three times the expected shooting time, and making trial shots before taking the actual shots.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.
- When the battery pack terminals become dirty, the camera may not turn on, the battery pack may not charge, or other symptoms may occur. In these cases, gently wipe away any dirt with a soft cloth.

How to store the battery pack

- Fully discharge the battery pack before storing and store it in a cool, dry place. To maintain the battery pack's function, fully charge the battery pack and then fully discharge it on the camera at least once a year while storing.
- To use the battery pack up, leave the camera in slideshow (page 81) playback mode until the power goes off.
- To keep clean battery pack terminal and prevent short-circuiting, place the battery pack in a plastic bag, etc. when carrying and storing to isolate it from other metal objects, etc.

On battery life

- The battery life is limited. Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.
- The battery life varies according to how it is stored and the operating conditions and environment in which each battery pack is used.

Compatible battery pack

- The NP-BN1 battery pack (supplied) can be used only in N type compatible Cyber-shot models.

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Battery charger

- Only NP-BN1 type battery packs (and no others) can be charged in the battery charger (supplied). Batteries other than the specified kind may leak, overheat, or explode if you attempt to charge them, posing a risk of injury from electrocution and burns.
- Remove the charged battery pack from the battery charger. If you leave the charged battery pack in the charger, battery life may be shortened.
- The CHARGE lamp of the supplied battery charger flashes in either way:
  – Fast flashing: Turns the light on and off repeatedly at the interval of 0.15 seconds.
  – Slow flashing: Turns the light on and off repeatedly at the interval of 1.5 seconds.
- When the CHARGE lamp flashes fast, remove the battery pack being charged, and then insert the same battery pack into the battery charger securely again. When the CHARGE lamp flashes fast again, this may indicate a battery error or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type. If the battery pack is the specified type, remove the battery pack, replace it with a new one or another one and check if the battery charger operates correctly. If the battery charger operates correctly, a battery error may have occurred.
- When the CHARGE lamp flashes slowly, it indicates that the battery charger stops charging temporarily on standby. The battery charger stops charging and enters the standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature gets back within the appropriate range, the battery charger resumes charging and the CHARGE lamp lights up again. We recommend charging the battery pack in an ambient temperature of between 10 °C to 30 °C (50 °F to 86 °F).

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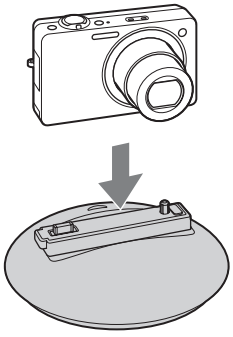
Intelligent Pantilter

Intelligent Pantilter (sold separately) allows you to take pictures, by having the camera detect people's faces.
For details, see the operating instructions supplied with Intelligent Pantilter.



Notes

- DSC-WX5C digital still camera does not support the Intelligent Pantilter (IPT-DS1/IPT-DS1C).
- The Intelligent Pantilter may not be available in all countries or regions.

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AVCHD format

The AVCHD format has been developed for high-definition digital video cameras when recording an HD (High-Definition) signal at the 1080i[*1] or 720p[*2] specification using high-efficiency compression coding technology. The MPEG-4 AVC/H.264 format is adopted to compress video data, and the Dolby Digital or Linear PCM system is used to compress audio data.
The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format. The MPEG-4 AVC/H.264 format enables a high definition video signal shot on a digital video camera recorder to be recorded on 8 cm DVD discs, hard disk drive, flash memory, memory card, etc.

Recording and playback on the camera

Based on the AVCHD format, your camera records with the high definition image quality (HD) mentioned below.

Video signal[*3]: **1080 60i-compatible device**
MPEG-4 AVC/H.264 1920×1080/60i, 1440×1080/60i
1080 50i-compatible device
MPEG-4 AVC/H.264 1920×1080/50i, 1440×1080/50i
Audio signal: Dolby Digital 2ch
Recording media: Memory card

*1 1080i specification
A high definition specification which utilizes 1,080 effective scanning lines and the interlace system.
*2 720p specification
A high definition specification which utilizes 720 effective scanning lines and the progressive system.
*3 Data recorded in AVCHD format other than the above mentioned cannot be played on your camera.

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TransferJet standard

TransferJet communications conform to the standard given below.

TransferJet standard:

Conforms to PCL Spec. Rev. 1.0

Protocol Class Name (communication type):

SCSI Block Device Target
OBEX Push Server
OBEX Push Client

- Use the “SCSI” communication protocol above when connecting to a TransferJet-compatible device (sold separately). Or, use the “OBEX” communication protocol when sharing data between cameras.

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Number of still images and recordable time of movies

The number of still images and recordable time may vary depending on the shooting conditions and the memory card.

Still images

(Units: Images)

Capacity / Size	Internal memory	Memory card formatted with this camera				
	Approx. 32 MB	2 GB	4 GB	8 GB	16 GB	32 GB
12M	6	344	690	1397	2846	5625
8M	8	482	967	1959	3990	7884
5M	10	582	1168	2366	4819	9524
VGA	207	11760	23600	47810	97350	192380
16:9(9M)	6	382	766	1552	3160	6246
16:9(2M)	32	1838	3688	7470	15210	30060

Notes

- When the number of remaining shootable images is greater than 99,999, the “>99999” indicator appears.
- When an image shot with other cameras is played back on this camera, the image may not appear in the actual image size.

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Movies

The table below shows the approximate maximum recording times. These are the total times for all movie files. Continuous shooting is possible for approximately 29 minutes at one time. The maximum size of an MP4-format movie file is up to approximately 2GB.

(Units: hour : minute : second)

Capacity / Quality/Size	Internal memory	Memory card formatted with this camera				
	Approx. 32 MB	2 GB	4 GB	8 GB	16 GB	32 GB
AVC HD 17M FH	—	0:14:00	0:28:30	0:58:10	1:58:50	3:55:20
AVC HD 9M HQ	—	0:28:00	0:57:00	1:56:20	3:57:50	7:50:40
MP4 12M	—	0:20:40	0:41:40	1:24:40	2:52:30	5:41:00
MP4 6M	—	0:40:40	1:21:50	2:45:50	5:37:50	11:07:50
MP4 3M	0:01:10	1:15:10	2:31:10	5:06:20	10:23:50	20:33:00

Note

- The recordable time of movies may vary depending on the shooting conditions (temperature, etc.). The value above applies when DISP (Screen Display Settings) is set to [Normal].

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Precautions

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places
  Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying

Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

On cleaning

Cleaning the LCD screen

Wipe the screen surface with an LCD cleaning kit (sold separately) to remove fingerprints, dust, etc.

Cleaning the lens

Wipe the lens with a soft cloth to remove fingerprints, dust, etc.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

– Do not expose the camera to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
– Do not touch the camera with any of the above on your hand.
– Do not leave the camera in contact with rubber or vinyl for a long time.

On operating temperatures

Your camera is designed for use under the temperatures between 0°C and 40°C (32°F and 104°F). Shooting in extremely cold or hot places that exceed this range is not recommended.

On the internal rechargeable backup battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off.
This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera.
However, even if this rechargeable battery is not charged, you can still use the camera, but the date and time will not be indicated.

Charging method of the internal rechargeable backup battery

Insert charged battery pack in the camera, and then leave the camera for 24 hours or more with the power off.

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Index

Numerics

3D Functions 51
3D Shooting 53
3D Sweep Panorama 53
3D Viewing 84

A

AF Illuminator 96
AF range finder frame 71
Anti Blink 80
Anti Motion Blur 26
Area Setting 125
Auto Orientation 99
AVCHD format 163

B

Background Defocus 24
Backlight Correction HDR 26
Battery charger 161
Battery pack 160
Beach 27
Beep 102
Blink Alert 101
Burst button 40
Burst Settings 65
Burst Shooting Interval 66

C

Calendar 87
Center AF 71
Center-weighted metering 73
Change REC.Folder 121
Clock Settings 126
COMPONENT 110
Computer
  Importing images 136, 137
  Macintosh 133
  Recommended computer environment 133
  Windows 133
Connecting
  Computer 136
  TV 127
Continuous Playback 81
Control button 16
Copy 123
Create REC.Folder 120
Creating a disc 140
CTRL FOR HDMI 109

D

Date & Time Setting 126
Defocus Effect 61
Delete 45, 90
Delete REC.Folder 122
Demo Mode 106
Digital Zoom 98
DISP 34
Display Burst Group 88
Display color 105
Download Music 113
DPOF 92

E

Easy Mode
  Shooting 58
  Viewing 59
EV 67
Exposure 67
Eye-Fi 117

F

Face Detection 78
File Number 124
Fireworks 27
Flash 36
Focus 71
Folder
  Changing 121
  Creating 120
  Deleting 122
  Selecting 94
Format 119
Format Music 114
Function Guide 104

Downloaded From camera-usermanual.com Sony Manuals

G

Gourmet 27
Grid Line 97

H

Hand-held Twilight 26
HD(1080i) 110
HDMI connector 56, 129, 131
HDMI Resolution 108
High Sensitivity 27

I

Identifying parts 16
Image Index 44
Image Size 62
Initialize 107
Intelligent Auto Adjustment 21
Intelligent Pantilter 162
Intelligent Sweep Panorama 29
Internal memory 19
ISO 68

L

Landscape 26
Language Setting 103
LUN Settings 112

M

Macintosh computer 133
Mass Storage 111
Memory card 3, 158
MENU 12
Metering Mode 73
Mode dial 20
MOVIE (Movie) button 41
Movie format 95
Movie Mode
  Shooting 31
  Viewing 49
MTP 111
Multi AF 71
Multi connector 127, 130, 136
Multi-pattern metering 73
Music Transfer 134, 135

N

Number of still images 165

O

Optical zoom 32, 98
OS 133

P

Panorama 29
Panorama Image Size 62
PC 133
Pet 27
Pixel 64
Playback
  3D images 55
  Movies 49
  Still images 42
Playback zoom 43
PMB 134
PMB Portable 138
Power Save 115
Precision digital zoom 98
Print 92, 143
Print order mark 92, 143
Program Auto 25
Protect 91
PTP 111

Q

Quality 62

R

Red Eye Correction 89
Red Eye Reduction 100
Retouch 89
Rotate 93

S

Scene Recognition 74
Scene Selection 26
Screen Display Settings 34
SD 110
Select Folder 94
Selected-face Memory 79

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Self-diagnosis display 152
Self-portrait 38
Self-Timer 38
Send by TransferJet 85
Settings 14
Shooting
3D images 53
Movie 31
Still Image 21
Shooting Direction 60
Slideshow 81
Slideshow with music 82
Slow Synchro 36
Smart zoom 98
Smile Detection Sensitivity 77
Smile Shutter 37
Snow 27
Soft Skin 26
Soft Skin Effect 76
Soft Snap 26
Software 134
Spot AF 71
Spot metering 73
Superior Auto Adjustment 22
Sweep Multi Angle 53

T

Tracking focus 33
TransferJet 116
TransferJet standard 164
Trimming (Resize) 89
Troubleshooting 144
TV 56, 127, 128
Twilight 26
Twilight Portrait 26

U

Unsharp masking 89
USB Connect 111
Using the camera abroad 157

V

VGA 62
View Mode 87
Viewing burst images 47

W

Warning indicators and messages 152
White Balance 69
Windows computer 133

Z

Zoom 32

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Notes on the License

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Source code is provided on the web. Use the following URL to download it.
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MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

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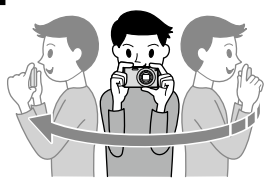
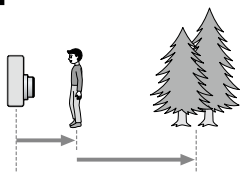
SONY

DSC-WX5

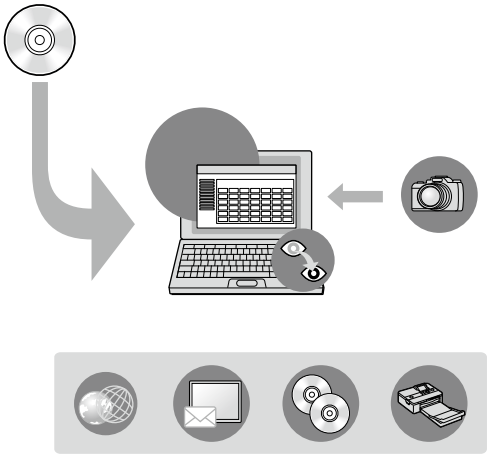
A



B



C



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Español

Notas

A

Consejos para tomar imágenes 3D

Para tomar imágenes 3D, haga un barrido con la cámara como se muestra en la ilustración.
Para tomar imágenes 3D correctamente, haga un barrido con la cámara lentamente. (Intente abarcar un semicírculo en 5 s (segundo).)
Si hace el barrido muy rápida o lentamente, se visualizará un mensaje en la pantalla LCD.

B

Consejos para desenfocar el fondo

Cuando el modo de toma está ajustado a [Desenfoque del fondo], la cámara deja desenfocado el fondo para destacar el motivo.
Si toma una imagen con el motivo y el fondo distanciados como se muestra en la ilustración, puede desenfocar el fondo.

C

Utilización del "PMB (Picture Motion Browser)"

El "PMB" está incluido en el CD-ROM suministrado. Instálelo en su ordenador para que la gestión y utilización de las imágenes le resulten más placenteras.

- Si ya hay instalada una versión más antigua del "PMB" en su ordenador, será sobrescrita cuando sea instalada la versión más reciente del CD-ROM suministrado.
- Para más detalles sobre cómo utilizar el "PMB", consulte la "Ayuda de PMB" después de realizar la instalación.
- Puede ver películas AVCHD en el ordenador utilizando el "PMB".

Para más detalles sobre la opeoración, consulte el Manual de instrucciones o la "Guía práctica de Cyber-shot" incluida en el CD-ROM suministrado.

English

Notes

A

Tips for shooting 3D images

To shoot 3D images, sweep the camera as shown in the illustration.
To take 3D images correctly, sweep the camera slowly. (Aim for a 5-second semicircle.)
If you are sweeping too quickly or too slowly, a message will be displayed on the LCD screen.

B

Tips for defocusing the background

When the shooting mode is set to [Background Defocus], the camera leaves the background out of focus so that the subject stands out.
If you shoot an image with the subject and background far apart as shown in the illustration, the background can be defocused.

C

Using "PMB (Picture Motion Browser)"

"PMB" is included on the supplied CD-ROM. Install it on your computer to make managing and using your images more enjoyable.

- If there is an older version of "PMB" installed on your computer, it will be overwritten when the newer version on the supplied CD-ROM is installed.
- For details on using "PMB", refer to "PMB Help" after installation.
- You can view AVCHD movies on a computer using "PMB".

For details on operation, refer to the Instruction Manual or to the "Cyber-shot Handbook" included on the supplied CD-ROM.

Français

Remarques

A

Conseils pour la prise d'images 3D

Pour prendre des images 3D, déplacez l'appareil en balayant comme représenté sur l'illustration.
Pour prendre correctement des images 3D, déplacez lentement l'appareil en balayant. (Essayez d'effectuer un demi-cercle en 5 secondes.)
Si vous déplacez l'appareil trop rapidement ou trop lentement, un message s'affiche sur l'écran LCD.

B

Conseils pour obtenir le flou de profondeur

Lorsque le mode de prise de vue est placé sur [Flou de profondeur], l'appareil laisse l'arrière-plan flou de sorte que le sujet se détache.
Si vous prenez une image alors que le sujet et l'arrière-plan sont très éloignés, comme représenté sur l'illustration, vous pouvez obtenir un arrière-plan flou.

C

Utilisation de « PMB (Picture Motion Browser) »

Le logiciel « PMB » se trouve sur le CD-ROM fourni. Installez-le sur votre ordinateur pour rendre plus agréable la gestion et l'utilisation de vos images.

- Si une version antérieure du logiciel « PMB » est installée sur votre ordinateur, elle sera écrasée lorsque la version plus récente du CD-ROM fourni est installée.
- Pour plus d'informations sur l'utilisation du logiciel « PMB », consultez l'« Aide PMB » après l'installation.
- Vous pouvez visualiser des films AVCHD sur un ordinateur à l'aide de « PMB ».

Pour plus d'informations sur l'utilisation, consultez le Mode d'emploi ou le « Guide pratique de Cyber-shot » se trouvant sur le CD-ROM fourni.

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Português

Notas

A

Sugestões para fotografar imagens 3D

Para fotografar imagens 3D, mova a câmara como mostrado na ilustração.
Para captar correctamente imagens 3D, mova a câmara lentamente. (Tenha por objectivo um semicírculo de 5 segundos).
Se estiver a mover muito rapidamente ou muito lentamente, visualizar-se-á uma mensagem no ecrã LCD.

B

Sugestões para desfocar o fundo

Quando o modo de fotografia estiver regulado para [Desfocagem do Fundo], a câmara deixa o fundo desfocado para que o motivo sobressaia.
Se fotografar uma imagem com o motivo e fundo muito distantes como mostrado na ilustração, o fundo pode ser desfocado.

C

Utilização do "PMB (Picture Motion Browser)"

O "PMB" vem incluído no CD-ROM fornecido. Instale-o no seu computador para que a gestão e utilização das suas imagens seja mais agradável.

- Se o seu computador tiver instalada uma versão mais antiga do "PMB", ela será substituída quando for instalada a versão mais recente do CD-ROM fornecido.
- Para mais detalhes sobre a utilização do "PMB", consulte a "Ajuda do PMB" após a instalação.
- Pode visualizar filmes AVCHD num computador utilizando o "PMB".

Para mais detalhes sobre a operação, consulte o Manual de instruções ou o "Manual da Cyber-shot" incluído no CD-ROM fornecido.

Русский

Примечания

A

Рекомендации по съемке 3D-изображений

Для съемки 3D-изображений поворачивайте фотоаппарат, как показано на рисунке.
Для правильной съемки 3D-изображений поворачивайте фотоаппарат медленно. (Выполните движение полукругом в течение 5 секунд.)
При повороте слишком быстро или слишком медленно на экране ЖКД будет отображаться сообщение.

B

Рекомендации по расфокусировке фона

Если режим съемки установлен в положение [Расфокусиров. фона], фотоаппарат оставляет фон расфокусированным, выделяя таким образом объект.
При выполнении съемки изображения с объектом и фоном, находящимися на большом расстоянии друг от друга, как показано на рисунке, фон может быть расфокусированным.

C

Использование программного обеспечения "PMB (Picture Motion Browser)"

"PMB" содержится на прилагаемом диске CD-ROM. Установите его на свой компьютер, чтобы сделать процесс управления и использования изображений более приятным.

- Если на компьютере установлена более старая версия "PMB", поверх нее будет записана более новая версия при установке с прилагаемого CD-ROM.
- Что касается подробных сведений по использованию "PMB", см. "Справка PMB" после установки.
- Вы можете просматривать видеозаписи записи AVCHD на компьютере с помощью "PMB".

Что касается подробных сведений по эксплуатации, см. Инструкцию по эксплуатации или "Руководство по Cyber-shot", находящееся на прилагаемом диске CD-ROM.

Українська

Примітки

A

Поради для зйомки 3D-фотографій

Щоб зробити 3D-фото, проведіть фотоапаратом, як показано на малюнку.
Для кращого запису 3D-зображення ведіть фотоапарат плавно (розраховуйте виконати повну дугу за 5 секунд).
Якщо вести фотоапарат надто швидко або надто повільно, на РК дисплеї з'явиться відповідне повідомлення.

B

Поради для зйомки фотографій із розмитим тлом

Коли вибрано режим зйомки [Расфокусиров. фона], тло на фотографії буде трохи розмитим, щоб підкреслити об'єкт зйомки.
Цей прийом можна застосовувати, коли об'єкт зйомки знаходиться на достатній віддалі від предметів тла, як показано на малюнку.

C

Використання програми «PMB (Picture Motion Browser)»

Програма «PMB» постачається на компакт-диску разом із фотоапаратом. Встановивши її на комп'ютері, можна спростити перегляд і операції з фотографіями.

- Якщо на комп'ютері встановлено ранішу версію «PMB», у ході встановлення її буде замінено на нову версію з компакт-диска.
- Докладніше про користування програмою «PMB» можна дізнатися з екранної довідки, відкривши пункт «PMB Help» після встановлення програми.
- За допомогою «PMB» можна також переглядати на комп'ютері відео у форматі AVCHD.

Докладніше про користування фотоапаратом можна дізнатися з Посібника з експлуатації або «Посібника з Cyber-shot» на компакт-диску, що входить у комплект.

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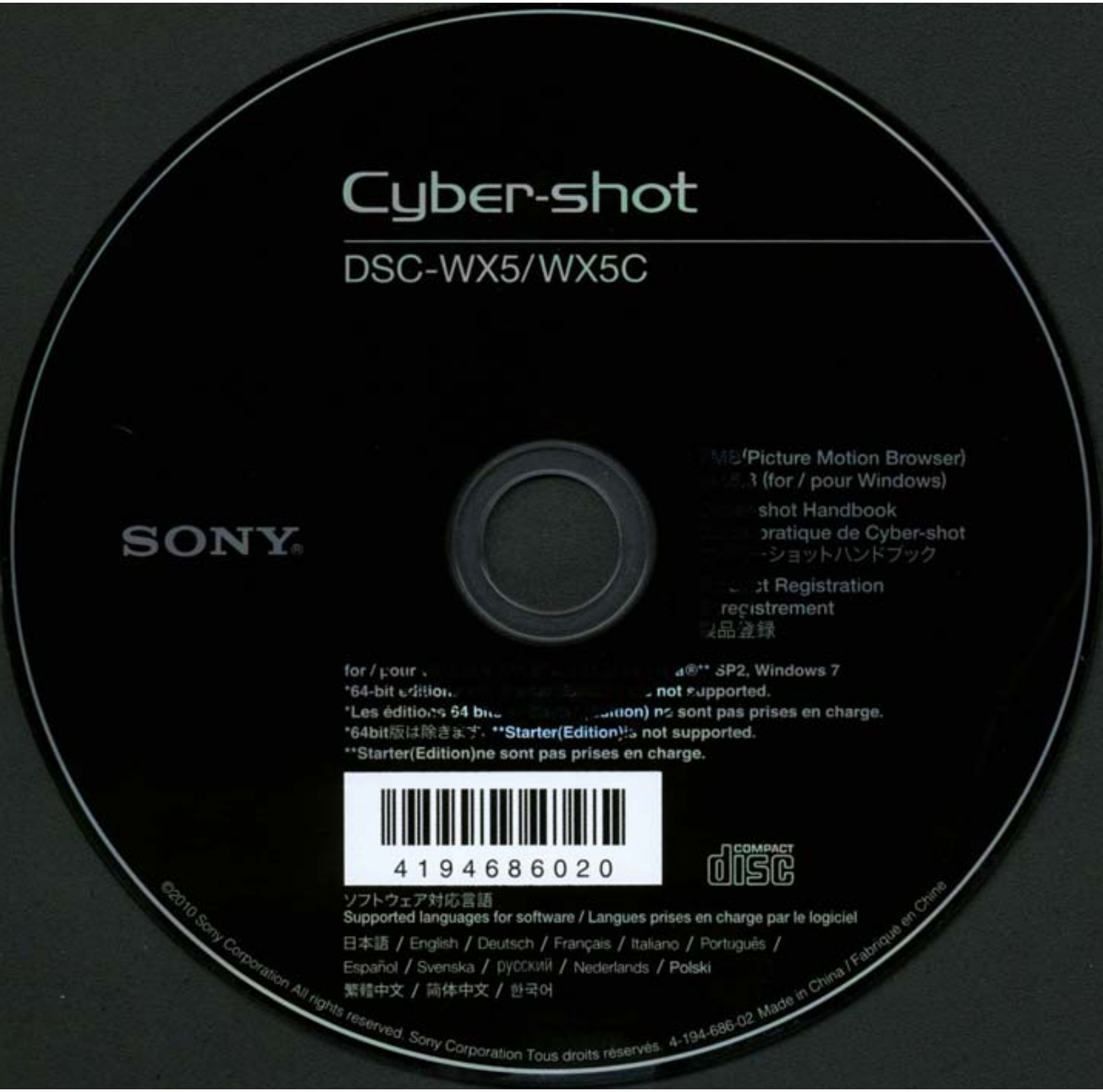

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For Windows® PC:

1) Turn on your PC.
2) Place the CD-ROM supplied with your product into your PC's CD drive.
3) When the installation menu appears, click 'Product Registration'.
4) Confirm the region and country/area information. Click 'Continue'.
5) Follow the instructions to connect your product to your PC and register.

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1) Turn on your Mac.
2) Place the CD-ROM supplied with your product into your Mac's CD drive.
3) Double-click on 'SONYPICTUTIL'.
4) Select the Mac folder and double-click 'Registration'.
5) Confirm the region and country/area information. Click 'Continue'.
6) Follow the instructions to connect your product to your Mac and register.

Or METHOD 2: Register online at https://productregistration.sony.com

Just visit this registration site and fill out the form to get your discount e-coupon.

*Offer valid until December 31, 2011.
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DSC-TX5/TX9/T99/WX5

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For Mac®:

1) Turn on your Mac.
2) Place the CD-ROM supplied with your product into your Mac's CD drive.
3) Double-click on 'SONYPICTUTIL'.
4) Select the Mac folder and double-click 'Registration'.
5) Confirm the region and country/area information. Click 'Continue'.
6) Follow the instructions to connect your product to your Mac and register.

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Save 15% off eligible accessories with this special e-coupon offer!

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Contents:

Power/Kit/Tripods	04 - 05
Cases	06 - 09
Party-shot™ personal photographer	10 - 11
Water Housing/DVDirect® Recorder	12 - 13
GPS Unit/Memory Stick® Media/TransferJet™	14 - 15

*See USB registration flyer in this box for details.

**Sales tax and shipping apply. For the full terms and conditions, visit https://productregistration.sony.com/.

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RECOMMENDED

LITHIUM Ion N Type Rechargeable Battery

NP-BN1 $49.99

- Typ. 2.3 Wh (630 mAh)

LITHIUM ION N TYPE

RECOMMENDED

Compact Battery Charger

BC-TRN $59.99

- Approx. twice as fast as charger supplied with camera
- Battery charger for N type battery
- Also compatible with G, D, T, and R type batteries
- Great for travel with retracting AC plug
- Universal voltage: AC 100-240V (50/60 Hz)

N TYPE G TYPE D TYPE T TYPE R TYPE

HD Output Adaptor Cable

VMC-MHC3 $59.99

- Connects your Cyber-shot® camera to compatible HD televisions
- View your photos in high definition
- Gold-plated terminals
- Approx. 4.9ft (1.5m) length

HDMI™ Cables

DLC-HE30HF (9.6ft/3m) $64.99
DLC-HE20HF (6.4ft/2m) $44.99
DLC-HE10HF (3.2ft/1m) $34.99

- High-speed HDMI cables
- Supporting up to 1080p "Full HD" resolution
- Gold-plated plugs
- Compatible only with DSC-TX9

AC Power Adaptor

AC-LS5* $39.99

- Supplies power when transferring images to your compatible PC
- AC 100-240V (50/60 Hz)
- No charging function

***Requires VMC-MD2 or VMC-MD3 cable (sold separately).**

Multi-use Terminal Cable

VMC-MD2/VMC-MD3** $39.99

- Includes video, audio and USB out, plus power-supply connector
- Approx. 4.9ft (1.5m) length
- Compatibility
  VMC-MD2: DSC-TX9
  VMC-MD3: DSC-TX5, T99, WX5

****Requires AC-LS5 for power supply (sold separately).**

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Round HDMI™ Cables

DLC-HE50P (16ft/5m) $99.99
DLC-HE30P (9.6ft/3m) $59.99
DLC-HE20P (6.4ft/2m) $39.99
DLC-HE10P (3.2ft/1m) $29.99

- High Speed HDMI Cable with Ethernet
- Meets all current HDMI standards, supporting 1080p, 3D/4K, Audio Return Channel (ARC), HDMI Ethernet Channel (HEC)
- Gold-plated plugs
- Compatible only with DSC-TX9

RECOMMENDED

Accessory Kit

ACC-CTBN $59.99

- Small carrying case with spare battery and convenient mini tripod
- Mini tripod steadies your camera on a table or flat surface
- Case includes side pocket to store the tripod

Travel Tripod

VCT-R100 $34.99

- Lightweight-yet-sturdy travel tripod
- Extends up to a generous 39 3/8"
- Folds down to a compact 14"

Mini HDMI Cables

DLC-HEM30 (9.6ft/3m) $59.99
DLC-HEM15 (4.8ft/1.5m) $39.99

- High-Definition digital video and multi-channel digital audio data transfer
- Simple cable/connector for HDMI equipped A/V components
- Compatible with 3DTV and 3D Blu-ray Disc Players
- Supports HDMI output with HDMI Type C (mini)
- Compatible only with DSC-WX5

Travel Kit

VCT-MTK $19.99

- Compact design for easy portability
- Extendable legs allow for a maximum height of 7 1/8"
- Comes with its own carrying pouch and cleaning cloth

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Cases

LCS-CSVD/B
(black, with belt loop on back)

LCS-CSVE/R
(red, with wrist strap)

RECOMMENDED

Leather Carrying Case

LCS-CSVD/B (belt loop) $39.99
LCS-CSVE/R (wrist strap) $39.99

- Textured genuine leather case
- Magnetic closure
- Both models let you carry your camera in style

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LCS-CSVA/B (black)

LCS-CSVA/R (red)

Soft Carrying Case

LCS-CSVA/B, /R $39.99

- Clutch-style bag
- Constructed of high-grade leather
- Available in two colors
- Includes matching strap

LCS-CSVC/B (black)

LCS-CSVC/L (blue)

LCS-CSVC/P (pink)

LCS-CSVC/V (violet)

Soft Carrying Case

LCS-CSVC/B, /L, /P, /V $19.99

- Clippable pouch style
- Made of polyurethane
- Available in four colors

LCS-CSVB/B (black)

Soft Carrying Case

LCS-CSVB/B $29.99

- Comes with a wrist strap
- Made of polyurethane

Floating Strap

STP-FSA $29.99

- Floating strap for your DSC-TX5 waterproof camera
- Keeps your camera afloat when dropped in the water

LCS-THQ/W (white)

Water Repellent Case

LCS-THQ/W $24.99

- Fun and casual carrying case for the DSC-TX5, T99, and WX5 cameras
- Water repellent material with small holes to help keep inside dry
- Carabiner to attach to belt loop, purse, or bag

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LCS-CSU/B (black) LCS-CSU/L (blue) LCS-CSU/R (red) LCS-CSU/S (silver)

RECOMMENDED

Soft Carrying Case

LCS-CSU/B, /L, /R, /S $19.99

- Three compartments for extra storage
- Four carrying options, belt loop, hip bag, shoulder strap, and wrap on a strap
- Pockets for Memory Stick® media and extra battery
- Available in four colors

LCS-CSVF/B (black) LCS-CSVF/R (red) LCS-CSVF/L (blue) LCS-CSVF/N (gold)

Soft Carrying Case

LCS-CSVF/B, /R, /L, /N $29.99

- Just fit case to help snugly protect your camera
- Available in four colors

To order by phone with 15% off e-coupon: 1-877-865-7669

LCJ-THE/B (black)

Leather Cover

LCJ-THE/B $39.99

- Genuine leather camera cover
- Flip-up design allows quick touch-panel access
- Includes stylus pen with storage slot
- Compatible only with DSC-TX5 and T99

Soft Carrying Case

LCS-CSJ $19.99

- Casual and sporty carrying case
- Inner pocket can hold Memory Stick® media and extra battery
- Shoulder strap and belt loop included

Soft Carrying Case

LCS-CST $14.99

- General-purpose case
- Storage for Memory Stick media and extra battery
- Casual and lightweight with belt loop

LCS-CSW/B (black) LCS-CSW/R (red) LCS-CSW/L (blue) LCS-CSW/S (silver)

Soft Carrying Case

LCS-CSW/B, /R, /L, /S $14.99

- Sleek style
- Compact with inner pockets for memory cards, cash, ID, etc.
- Detachable belt hook
- Available in four colors

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Party-shot™ personal photographer

Relax and join in the party with Sony's Party-shot™ personal photographer. This smart device works together with your DSC-TX9 and WX5 Cyber-shot® camera's Face Detection and Smile Shutter™ technologies to automatically take photos for you. It pans, tilts, and zooms all by itself—searching for and capturing a smile to compose candid, once-in-a-lifetime photos. It's never been this easy to take such natural-looking, unposed pictures.

Party-shot™ personal photographer

To order by phone with 15% off e-coupon: 1-877-865-7669

Simulated images for illustrative purposes.

RECOMMENDED

Party-shot™ personal photographer

IPT-DS1 $149.99

- Snaps pictures at an event—automatically
- Intelligently pans and tilts to follow subjects and take photos
- Automatically detects faces and adjusts the composition of pictures
- Automatically capture a smile with Smile Shutter™ technology
- Your camera's iSweep Panorama Mode captures stunning panoramic images
- Compatible only with DSC-TX9 and DSC-WX5

Party-shot™

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Miscellaneous

Marine Pack

MPK-THJ $249.99

- Waterproof housing for Cyber-shot® camera
- Offers protection up to 132 feet (40m) deep
- Set your Cyber-shot camera to Underwater Mode to enhance color reproduction and retain image's natural tones
- Take beautiful underwater movies with movie mode and realistic photos with the color filter mode
- Compatible with DSC-TX9, TX5, and T99

Marine packs working with your Cyber-shot® camera's Underwater Mode to enhance color reproduction and retain image's natural tones.

COMPARISON

Underwater Mode on your Cyber-shot camera: OFF

Underwater Mode on your Cyber-shot camera: ON

Simulated images for illustrative purposes.

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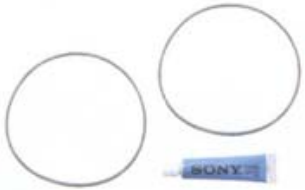

O-Ring Kit

ACC-MP101 $19.99

- Extra O-rings and sealing grease for MPK-THJ Sony® Marine Pack
- Helps ensure Marine Pack remains watertight

DVD media sold separately.

RECOMMENDED

DVDirect Multi-function DVD Recorder[2]

VRD-MC6 $199.99

- Transfer SD home video from virtually any source to DVD without a PC
- Transfer HD home video from Sony AVCHD Handycam camcorders and AVCHD compatible Cyber-shot cameras (DSC-WX5, TX9, TX7 and HX5V only) to DVD[1]
- Accepts virtually any memory card (except CompactFlash® media) to transfer your digital photos to DVD as a slideshow or for photo storage
- 2.7" color wide LCD screen[3] for photo/video preview

1. DVD media containing AVCHD footage may be played on a compatible Blu-ray Disc™ player/recorder, PC with supplied software or PLAYSTATION®3 devices. DVD media containing AVCHD footage should not be used with standard DVD based players, as the DVD player may fail to eject the media and may erase its contents without warning.
2. The VRD-MC6 do not play commercial DVD movie discs.
3. Viewable area measured diagonally.

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GPS Unit

To order by phone with 15% off e-coupon: 1-877-865-7669

GPS Unit RECOMMENDED

GPS-CS3KA $149.99

- Automatically record the location of every shot you take
- Display your pictures as pop-ups on Google Maps™ mapping service**
- Built-in Memory Stick Duo™ and SD card slot offers easy data-matching process (Photo data and GPS log data)
- High sensitivity (-159dBm or less)
- Runs on one AA battery (sold separately) for approx. 15hrs
- LCD display shows position info, battery info, date & time, and more

**Online map service currently provided by Google and is subject to change or termination without notice. PC and Internet connection required. Map detail is limited in some areas.

Maps and satellite images powered by Google Maps

SDHC/SD Memory Cards

32 GB* *(30.0 GB avail.)*
SF-32N4 $159.99

16 GB* *(14.8 GB avail.)*
SF-16N4 $79.99

8 GB* *(7.3 GB avail.)*
SF-8N4 $44.99

4 GB* *(3.6 GB avail.)*
SF-4N4 $29.99

2 GB* *(1.8 GB avail.)*
SF-2N1 $14.99

- For use in a wide variety of applications
- Class 4 speed is recommended for AVCHD recording
- Label area on the card for written notes
- Includes x-Pict Story picture sharing software. "x-Pict Story for Memory Card" creates distinctive photo presentation with unique layouts synced to effects and music. Your photos and music of memories will be arranged into a moving photo album
- Includes File Rescue Software; recover accidentally deleted images, MPEG and MP4 video

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Memory Stick® Media/TransferJet™

To order by phone with 15% off e-coupon: 1-877-865-7669

Memory Stick PRO-HG Duo™ "HX" Media

32 GB* *(30.0 GB avail.)*
MS-HX32A $199.99

16 GB* *(14.9 GB avail.)*
MS-HX16A $109.99

8 GB* *(7.35 GB avail.)*
MS-HX8A $59.99

- 30MB/second read speed for high-speed transfers[1]
- Ideal for HD recording

*Available storage capacity may vary and a portion of the memory is used for data management functions.

1. Memory Stick PRO Duo™ media compatibility, capacity, transfer speeds, and other features vary by and are dependent upon the design of host hardware devices. See hardware specifications or www.sony.net/memorystick/supporte/ for compatibility information.
2. Both cameras must utilize a Memory Stick media with TransferJet technology.
3. Camera must utilize a Memory Stick media with TransferJet technology. Interoperability and compatibility among TransferJet enabled devices may vary.

Memory Stick® media with TransferJet™ technology[3]

MS-JX8G $99.99

- 8GB* (7.35 GB avail.) Memory Stick with TransferJet technology
- Enables wireless photo sharing by align TransferJet logos between cameras equipped TransferJet function[2]
- Enables wireless photo viewing and sharing with the TJS-1 (sold separately)
- TransferJet function is compatible only with DSC-TX9, T99, and DSC-WX5

TransferJet Station

TJS-1 $149.99

- Set your compatible camera on the TransferJet station to transfer photos and movies[3]
- Easy "View" and "Store" solutions
- Easily view content on a PC or TV
- Save content to a PC or other compatible product connected via USB

TransferJet equipped Memory Stick must be used with TransferJet enabled Cyber-shot Camera in order to use TransferJet function.

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To order: call 1.877.865.SONY (7669)

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Non-metric weights and measures are approximate and may vary. Features and specifications are subject to change without notice. All sample photos and screen representations are simulated. Offer is subject to availability and Sony may modify or terminate this offer at any time and for any reason.

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SONY®

Digital Camera

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Sony Electronics Inc. ("Sony") warrants this product against defects in material or workmanship for the time periods and as set forth below when purchased directly from Sony or a Sony Retailer. Pursuant to this Limited Warranty, Sony will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product with a new or refurbished product. For purposes of this Limited Warranty, "refurbished" means a product or part that has been returned to its original specifications. **In the event of a defect, these are your exclusive remedies.**

Term: For a period of one (1) year from the original date of purchase of the product, Sony will, at its option, repair or replace with new or refurbished product or parts, any product or parts determined to be defective.

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed software Limited Warranty. Please refer to the End User License Agreements included with the Product for your rights and obligations with respect to the software.

Instructions: To obtain warranty service, you must deliver the product, freight prepaid, in either its original packaging or packaging affording an equal degree of protection to the Sony authorized service facility specified. **It is your responsibility to backup any data, software or other materials you may have stored or preserved on your unit. It is likely that such data, software, or other materials will be lost or reformatted during service and Sony will not be responsible for any such damage or loss.** A dated purchase receipt from Sony or a Sony Retailer is required. For specific instructions on how to obtain warranty service for your product,

Visit Sony's Web Site:
www.sony.com/support

Or call the Sony Customer Information Service Center
1-800-222-SONY (7669)

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)

Repair / Replacement Warranty: This Limited Warranty shall apply to any repair, replacement part or replacement product for the remainder of the original Limited Warranty period or for ninety (90) days, whichever is longer. Any parts or product replaced under this Limited Warranty will become the property of Sony.

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary use; it does not cover product issues caused by any other reason, including but not limited to product issues due to acts of God, misuse, limitations of technology, or modification of or to any part of the Sony product or product purchased from other than Sony or a Sony Retailer. To determine if a retailer is part of the Sony Retailer Network, please contact Sony's Customer Service Call Center or go to www.sony.com/support. This Limited Warranty does not cover Sony products sold AS IS or WITH ALL FAULTS or consumables (such as fuses or batteries). This Limited Warranty is invalid if the factory-applied serial number has been altered or removed from the product. This Limited Warranty is valid only in the United States.

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